
 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 1 OF 172	

Table of Contents

1.0	Introduction.....	2
2.0	Conventions	2
3.0	Requirements	2
4.0	Network Security Issues	2
5.0	Other Warnings and Recommendations	2
6.0	General Usage.....	2
6.1	Commands.....	3
6.2	Responses.....	5
7.0	Field Properties	5
8.0	Examples.....	8
9.0	Local/Remote Control.....	9
10.0	Custom Formats.....	9
10.1	Format symbols	9
10.2	Format templates	9
11.0	Field Descriptions	11

ECCN 5E991. EXPORT CONTROL WARNING – Do not disclose or provide this document or item (including its contents) to non-U.S. Citizens or non-U.S. Permanent Residents, or transmit this document or item (including its contents) outside the U.S. without the written permission of Freedom Communication Technologies and required U.S. Government export approvals.

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 2 OF 172	

1.0 Introduction

This purpose of this document is to provide definition for the protocol interface used to command and interact with an R8000 Series Communications System Analyzer. The field description section of this document is subject to change and may vary between system versions.

2.0 Conventions

The following conventions are used herein:

Command strings are **bold** text

Response strings are ***bold italicized green*** text.

3.0 Requirements

The monitor and control (M&C) connection requires a cross-over Ethernet cable connected over a direct local network via TCP port **4000**. The interface is not currently available over a routed connection.

4.0 Network Security Issues

In order to enable the use of the monitor and control protocol, the R8000 must have its network settings configured. **The user should be aware that external security measures are required to protect the R8000 from unauthorized access.**

5.0 Other Warnings and Recommendations


While there are access restrictions when using this protocol to monitor and control the R8000, it is highly recommended that programmers be cautious and aware that this equipment is capable of generating and receiving high power signals through its configuration. **The protocol does not protect the user from improper physical connections or signal routing.** It is also recommended that programmers use the equipment ID command (*IDN?) to identify the equipment being controlled upon the initiation of a connection or following local control of the equipment.

6.0 General Usage

The M&C consists of a set of proprietary commands as well as supporting the IEEE standard equipment ID query. These various commands are used to access the menus and fields that control and report R8000 operation. Commands take the form of:

CMD[Tag[=data]]

If applicable, the Tag consists of the required region, also called the owner, of the field along with a specifier. Some fields require that the region is active in order to query or control the data. The specifier identifies the specific field or code being queried or controlled. The region and specifier are joined together with a colon ":"; e.g. DISPLAY:Span. The data is only used with write access controls and must be in the appropriate format per the field definition. The square

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 3 OF 172	

brackets ([]) illustrate these options and are not part of the actual command to be sent. All commands must be terminated by a carriage-return (CR) and line-feed (LF) character.

6.1 Commands

1. **NOOP**: This command has no affect on the R8000 but provides a mechanism for a prompt query. Programmers may use this command to poll for response of code **2** (Busy) to determine if a previous new command may still be being applied; see the field description section, Typical Completion Time.

Usage : **NOOP**

2. **GET**: Use this command to retrieve monitored information or current control settings

Usage: **GET <Tag>**

3. **SET**: Use this command to set a control to a new value

Usage: **SET <Tag>=<value>**

NOTE: If a field of Data Type BOOLEAN has no List Values then value is **F** or **T**.

4. **DO**: Use this command to have the R8000 perform a function.

Usage: **DO <Tag>**

5. **GO**: Use this command to navigate the R8000 menu tree. Some fields are only accessible if the field's required menu is active. In order to monitor or control these fields, use the **GO** command to navigate to the menu first.


Usage: **GO <Tag>**

6. ***IDN?**: Equipment ID command. Use this command to return the following formatted response:

Usage: ***IDN?**

*Freedom Communication Technologies, Inc. Communications System Analyzer
 Model:<model number>, S/N:<serial number>, System Version:<version>*

7. **ERR?** and **CLEAR**: Use these commands together to manage the error notification system of the R8000. **ERR?** queries the R8000 for error information and **CLEAR** is used to acknowledge error messages and popups. There are two usages based on the response to **ERR?**.

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 4 OF 172	

Usage : **ERR?**

Usage 1(Popup): **CLEAR <Tag>[Response]**

If a popup is active, **ERR?** will return with the popup tag, a list of valid responses, and the text message of the popup. For example:

ERR?

*0:SYSTEM:6045[POP_CONTINUE,POP_CANCEL] WARNING!
Access to USB device Press Continue to save screen capture to device
Or Press Cancel to abort*

CLEAR SYSTEM:6045[POP_CONTINUE]

0:

Usage 2(Messages): **CLEAR**

If no popup is active, the **ERR?** will respond with the number of active messages and a list of the message codes. For example:

ERR?

0:2[6040,7001]

CLEAR

0:

ERR?

0:0[]

- HELP:** Use this command to obtain limited help information. This command can return help for a command, a specific field, or a brief explanation of a prompt or message code.

Usage 1(Command help): **HELP <Command>**

Usage 2(Field help): **HELP <Tag>**

The field help is formatted to allow users to format the response into a readable body. It contains the pipe-bar character “|” at each location where a carriage return/line feed (CRLF) should be placed. For example,


HELP SYSTEM:RF

will respond with the following string:

0:Name:RF Zone|Tag:SYSTEM:RF|Commands:GO|Data Type:SUBMENU|Typical Completion Time:250 ms|

By replacing all pipe-bar characters with a CRLF, the result is this:

0:Name:RF Zone

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 5 OF 172	

Tag:SYSTEM:RF
Commands:GO
Data Type:SUBMENU
Typical Completion Time:250 ms

Usage 3(Prompt\Message code): **HELP <code>**

6.2 Responses

Each command sent to the R8000 via the M&C protocol shall return a single response. The response consists of a prompt code and colon followed by any returned data. The returned data format depends on the field's data type.

1. Prompt codes
 - a. **0**: Okay – command was successful
 - b. **1**: Ranged – command was accepted but the data had to be coerced into the valid data range or format.
 - c. **2**: Busy – command was accepted (i.e. code would have been Okay) but previous command was not confirmed complete based on Typical Completion Time.
 - d. **3**: Denied – Access to the requested field was denied. Check field Commands property.
 - e. **4**: N/A – Not available at this time. Check availability requirements.
 - f. **5**: Option – Option not installed. Contact Sales to purchase options.
 - g. **6**: Error – Unexpected error.
 - h. **7**: Invalid – Command not valid for field. Check field Commands property.
 - i. **8**: Unknown – Tag is unknown. Check Region and Tag
 - j. **9**: Format – Data is in the wrong format. For example, the field is an INTEGER type but a character string was sent. Check field data type.


7.0 Field Properties

Fields are described by their set of properties. This section describes the field properties, valid commands for them, type of data, availability conditions, typical command completion times, etc.

1. Name: This is the name of the field. It is unused in the protocol but valuable for reference as this name corresponds to the name found on soft keys for controls on the R8000. It is also may be slightly more descriptive than the tag.
2. Tag: The tag consists of two parts; the Region, or owner, categorizes the scope of the tag reference; the tag itself specifies the particular field within the region.

The format of the Tag is always Region:Tag

3. Commands: this property is a list of valid M&C commands that may be used with the field.

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 6 OF 172	

4. Data Type: This describes the type of data expected in the **SET** command string or the data returned from a **GET** query. All data is passed in text string format, however the string is processed by the R8000 according to the data type.
 - a. Format: Some STRING and Numeric data fields have a specialized format for the data. See 10.0 Custom Formats.
 - b. Char set: Some STRING data fields are restricted to the character set that can be used. For example, the DTMF Code has a defined character set:

0,1,2,3,4,5,6,7,8,9,A,B,C,D,#,*
 - c. List Values: Both LIST and BOOLEAN data type fields have aliased text strings to make the command/response more readable. These aliases correspond to the horizontal soft key position or position in the list box in the R8000 editing system.

Some LIST and BOOLEAN data type values are dynamically available based on the condition of the system at the time of the command. These conditions are documented in brackets immediately following the list value and describe the run-time conditions necessary to set the field to the specific list value. For example, the following field description indicates availability conditions for both list values:


Name:Select Audio Measurement
 Tag:METER:Audio Meter
 Commands:GET, SET
 Data Type:LIST
 List Values: SINAD/Ext Distortion [Test Mode<>P25 Trunk and Test Mode<>NXDN Trunk], Internal Distortion [Test Mode=Standard]
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:METER:Subzone=SINAD/Distortion
 Typical Completion Time:100 ms

The **SINAD/Ext Distortion** value is available in all test modes except trunking modes.

The **Internal Distortion** is only available in Standard test mode.

NOTE: Do not include the condition when setting a value; the correct command for this example is: SET METER:Audio Meter=SINAD/Ext Distortion

- d. Range: Numeric values may have limited ranges that will be accepted. If the number has settable units (See Units), the range is always defined in the base units. If the data set into the field is outside the range, the R8000 will coerce the

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 7 OF 172	

new value into the range at either the minimum or maximum value. The command will be accepted and return with a prompt code of **I** (Ranged)

- e. Units: Some floating point values have settable units that the value can be set in. If the field has settable units, this property will list the valid entries. To set a floating point value with its units, format the data as “value units”; for example:

SET RF:Monitor Frequency=1.2 GHz
0:1.20000000 GHz


However, sending the units is not a requirement. If units are not sent, the system will apply the currently configured units to the data. For example, if the following two commands are sent, the second will be assumed to be in MHz.

SET RF:Monitor Frequency=403 MHz
0:403.000000 MHz
SET RF:Monitor Frequency=405
0:405.000000 MHz

5. Availability

Because the R8000 disables sub-systems to provide the most efficient use of processing, certain fields may not be available at all times. Fields that have availability requirements are denoted under this property.

- a. Synth Format: Field is only accessible when the specified Audio Format is selected. This availability requirement is unique to fields in the Audio Zone and used to configure specific audio formats such as PL, DPL, etc.
 - b. Operating Mode: Field is only accessible when the R8000 is in the mode(s) indicated. If this property is not present, the field is available in any/all modes unless otherwise unavailable.
 - c. Options: Field is only accessible when the specified option has been purchased. If this property is not present, the field is standard. Contact to purchase new options for your R8000.
 - d. Menu: Field is only accessible when the R8000 menu system has the given condition active. This condition may specify a region or a region and a subzone (Region ->Subzone). Use the **GO** and **SET** commands to navigate to and/or select the appropriate region. If this property is not present, the field is available regardless of region.
6. Typical Completion Time: This property provides the typical processing time for the field in milliseconds. Most commands take very little time to complete; however some commands take more time to apply the desired condition to the system. This is particularly important when creating automated control software. The M&C is designed for immediate command response. However if the previous command has not had time to complete, there is no guarantee that data will be ready to retrieve following a change in

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 8 OF 172	

configuration. For example, the following commands if sent without delay would most likely result in an inaccurate Input Level reading:

```

SET RF:Monitor Frequency=403 MHz
0:403.000000 MHz
GET MONITOR:Input Level
2:-32.3

```

The prompt will be returned with code **2** (Busy) if the previous command was not given enough time to complete its transaction.

8.0 Examples

There are a few examples of how to use different types of commands with fields within the following section. These examples assume the R8000 is starting from the main zone screen and call specific commands to activate the required regions necessary to command the field. These examples are given as if executed from a terminal with a connection to the remote monitor and control interface. Expected command responses are provided for reference.


1. Tune to local radio station with the highest signal. From a terminal program execute the following commands in sequence.

```

SET SYSTEM:Mode Request=Monitor
0:Monitor
GO SYSTEM:RF
0:
SET RF:Monitor Port=Antenna
0:Antenna
SET RF:Bandwidth=200 kHz (Wide)
0: 200 kHz (Wide)
GO SYSTEM:DISPLAY
0:
SET DISPLAY:Subzone=Spec An
0:Spec An
SET DISPLAY:Start Frequency=75 MHz
0:75.000000 MHz
SET DISPLAY:Stop Frequency=110 MHz
0:110.000000 MHz
DO DISPLAY:Center Peak
0:
SET DISPLAY:Span=158 kHz
0:158.000 kHz

```

2. Generate a DTMF tone and view it on the modulation scope. From a terminal program execute the following commands in sequence.

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 9 OF 172	

SET SYSTEM:Mode Request=Generate

0:Generate

GO SYSTEM:DISPLAY

0:

SET DISPLAY:Subzone=Mod Scope

0:Mod Scope

SET DISPLAY:FM Vertical Scale=5 kHz

0:5 kHz

GO SYSTEM:AUDIO

0:

SET AUDIO:Gen DTMF=12

0:12

SET AUDIO:DTMF Code=123ABC#

0:123ABC#-----

SET AUDIO:DTMF Mode=Continuous

0:Continuous

9.0 Local/Remote Control

The R8000 will temporarily lock out local users when the unit is remotely controlled. When the R8000 is in lock-out, the Operating Mode indicator on the lower-left part of the screen will flash between the operating mode and "Remote". To regain local control the Esc key must be pressed from the front panel.

10.0 Custom Formats

Some fields use a custom formatting that is required for data entry. This section describes each format type.

10.1 Format symbols


- \$ Alphabetic characters only (A-Z)
- # Decimal digits only (0-9)
- 0 Hexadecimal characters only (0-9, A-F)
- x Any/all characters are valid
- : Location in string must be a colon
- . Location in string must be a period.

10.2 Format templates

0x0000 – Hexadecimal format. This field is a string containing a hexadecimal value the length of the number of digits to the right of the 0x prefix. If the data is shorter than the format, add leading zeros to ensure the appropriate value is set.

Examples:

Format=0x0000

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 10 OF 172	

Setting => 0A3F

Format=0x00
 Setting => 3F

Format=0x00000000
 Setting => 00000A3F

#.##### – Floating point format. This field contains a floating point number with the precision defined by the number of digits to the right of the decimal point.

Examples:

Format=#.##
 Setting => 4.02

Format=#.#####
 Setting => 1.10031

(POCSAGCustom) – Used for blank formatting and the POCSAG text messaging, no particular formatting required.

(56Tone) - Used specifically for the 5/6 Tone code formatting. The 5/6 tone must be formatted as **#-#####c** where c is either empty or 'X' indicating the 6-tone. The valid character set for the digital format (#) is [0123456789R] where the 'R' character indicates a repeat tone.

Examples:


0-12345
 2-12R45
 0-12346X

(DTMFCode) – Used specifically for the DTMF Tone code formatting. The DTMF code field must be at exactly 16 characters long. Strings less than 16 characters will be appended with dashes "-" to extend the string to 16 characters. Strings longer than 16 characters will be truncated to 16 characters. The valid character set for DTMF code is [0123456789ABCD#*]

(GENSEQCode) - Used specifically for the General Sequence tone code, delay, and duration sequence formatting. These fields must be at exactly 20 characters long. Strings less than 20 characters will be appended with dashes "-" to extend the string to 20 characters. Strings longer than 20 characters will be truncated to 20 characters. The valid character set for the General Sequence format is [0123456789ABCDEFGHIJ]

(HH:MM) – Used for time entry where HH is 24-hour notation; MM is minutes. This field must have a colon in the 3rd character position.

(MM.DD.YYYY) – Used for date entry where MM is month, DD is day, and YYYY is year. This field must have a period in the 3rd and 6th character positions.

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 11 OF 172	

11.0 Field Descriptions

This section provides the specific properties for each field accessible through the R8000 Monitor and Control interface for R8000 system version 4.5.0.0.

Name:RF Zone
 Tag:SYSTEM:RF
 Commands:GO
 Data Type:SUBMENU
 Typical Completion Time:1000 ms

Name:AUDIO Zone
 Tag:SYSTEM:AUDIO
 Commands:GO
 Data Type:SUBMENU
 Typical Completion Time:1000 ms


Name:DMR
 Tag:SYSTEM:DMR
 Commands:GO
 Data Type:SUBMENU
 Availability:
 Option:R8-DMR
 Typical Completion Time:2000 ms

Name:PROJECT 25
 Tag:SYSTEM:P25
 Commands:GO
 Data Type:SUBMENU
 Availability:
 Option:R8-P25
 Typical Completion Time:2000 ms

Name:P25 II
 Tag:SYSTEM:P25_II
 Commands:GO
 Data Type:SUBMENU
 Availability:
 Option:R8-P25_II
 Typical Completion Time:2000 ms

Name:NXDN™
 Tag:SYSTEM:NXDN
 Commands:GO
 Data Type:SUBMENU
 Availability:
 Option:R8-NXDN
 Typical Completion Time:2000 ms

Name:dPMR
 Tag:SYSTEM:DPMR
 Commands:GO
 Data Type:SUBMENU

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 12 OF 172	

Availability:

Option:R8-DPMR

Typical Completion Time:2000 ms

Name:P25 Trunk

Tag:SYSTEM:P25_TRUNK

Commands:GO

Data Type:SUBMENU

Availability:

Option:R8-P25TRNK

Typical Completion Time:2000 ms

Name:PTC-ACSES

Tag:SYSTEM:PTC_ACSES

Commands:GO

Data Type:SUBMENU

Availability:

Option:R8-PTC_ACSES

Typical Completion Time:2000 ms

Name:PTC-ITCR

Tag:SYSTEM:PTC_ITCR

Commands:GO

Data Type:SUBMENU

Availability:

Option:R8-PTC_ITCR

Typical Completion Time:2000 ms

Name:TETRA

Tag:SYSTEM:TETRA

Commands:GO

Data Type:SUBMENU

Availability:

Option:R8-TETRA_BSM, R8-TETRA_DMO

Typical Completion Time:2000 ms

Name:TETRA TMO

Tag:SYSTEM:TETRA_TMO

Commands:GO

Data Type:SUBMENU

Availability:

Option:R8-TETRA_TMO

Typical Completion Time:2000 ms

Name:TETRA Base Station

Tag:SYSTEM:TETRA_BST

Commands:GO

Data Type:SUBMENU

Availability:


Option:R8-TETRA_BSM

Typical Completion Time:2000 ms

Name:NXDN™ Trunk

Tag:SYSTEM:NXDN_TRUNK

Commands:GO

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 13 OF 172	

Data Type:SUBMENU
 Availability:
 Option:R8-NXDNTYPC
 Typical Completion Time:2000 ms

Name:Continue to Avionics
 Tag:SYSTEM:AVIONICS
 Commands:GO
 Data Type:SUBMENU
 Availability:
 Option:R8-AVIONICS
 Typical Completion Time:2000 ms

Name:DISPLAY Zone
 Tag:SYSTEM:DISPLAY
 Commands:GO
 Data Type:SUBMENU
 Typical Completion Time:1000 ms

Name:METER Zone
 Tag:SYSTEM:METER
 Commands:GO
 Data Type:SUBMENU
 Typical Completion Time:1000 ms

Name:State
 Tag:SYSTEM:State
 Commands:GET
 Data Type:LIST
 List Values: INIT, RUN, LOAD, CALIBRATE
 Typical Completion Time:0 ms

Name:Mode
 Tag:SYSTEM:Mode
 Commands:GET
 Data Type:LIST
 List Values: Monitor, Generate, Duplex, Track Gen, Cable Fault, VNA
 Typical Completion Time:0 ms

Name:Mode
 Tag:SYSTEM:Mode Request
 Commands:GET, SET
 Data Type:LIST
 List Values: Monitor, Generate, Duplex
 Typical Completion Time:2000 ms

Name:Squelch Position
 Tag:SYSTEM:Squelch Position
 Commands:GET
 Data Type:FLOAT
 Typical Completion Time:0 ms

Name:Squelch State
 Tag:SYSTEM:Squelch State
 Commands:GET

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 14 OF 172	

Data Type:BOOLEAN
 List Values: Squelched - Low Signal, Not Squelched
 Typical Completion Time:0 ms


Name:Serial Number
 Tag:SYSTEM:UNITID
 Commands:GET
 Data Type:STRING
 Typical Completion Time:0 ms

Name:
 Tag:SYSTEM:BaseModel
 Commands:GET
 Data Type:STRING
 Typical Completion Time:0 ms

Name:External Drives
 Tag:SYSTEM:External Drives
 Commands:GET
 Data Type:LIST
 List Values:
 Typical Completion Time:0 ms

Name:Select Display
 Tag:DISPLAY:Subzone
 Commands:GET, SET
 Data Type:LIST
 List Values: Spec An, Mod Scope [Test Mode=Standard or Test Mode=DPMR or Test Mode=NXDN or Test Mode=NXDN Trunk], Oscilloscope [Test Mode=Standard or Test Mode=DPMR or Test Mode=NXDN or Test Mode=NXDN Trunk or Test Mode=PROJECT 25 or Test Mode=P25 Trunk or Test Mode=P25 II], Bar Graphs [Test Mode=Standard or Test Mode=DPMR or Test Mode=NXDN or Test Mode=PROJECT 25 or Test Mode=P25 II], Eye Diagram [Test Mode=DPMR or Test Mode=NXDN or Test Mode=NXDN Trunk or Test Mode=PROJECT 25 or Test Mode=P25 Trunk or Test Mode=P25 II or Test Mode=PTC-ACSES or Test Mode=PTC-ITCR or Test Mode=DMR], Power Profile [Test Mode=DMR or Test Mode=P25 II and P25_II:Mon Mod Type=HCPM or Test Mode=PTC-ACSES or Test Mode=PTC-ITCR or Test Mode=TETRA DMO], General Sequence [METER:Decoder=General Sequence], Voice Frame Decode [Test Mode=PROJECT 25], Mod Spec / Constellation [Test Mode=TETRA DMO], Constellation Plot [Test Mode=PTC-ITCR or Test Mode=PROJECT 25], Distribution Plot [Test Mode=PROJECT 25 or Test Mode=P25 Trunk or Test Mode=P25 II or Test Mode=PTC-ITCR or Test Mode=DMR or Test Mode=NXDN], Slot Map [Test Mode=PTC-ACSES], Analysis Details [Test Mode=DMR], Protocol Details [Test Mode=DMR]
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Typical Completion Time:500 ms

Name:Reset Meter Fields
 Tag:DISPLAY:ResetAnalysisDetails
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:DISPLAY:Subzone=Analysis Details
 Typical Completion Time:500 ms

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 15 OF 172	

Name:Samples
 Tag:DISPLAY:Spectral Data
 Commands:GET
 Data Type:ARRAY
 Availability:
 Operating Mode:Monitor, Duplex, Track Gen
 Typical Completion Time:100 ms


Name:Samples
 Tag:DISPLAY:Demodulation Data
 Commands:GET
 Data Type:ARRAY
 Availability:
 Operating Mode:Monitor, Duplex
 Typical Completion Time:100 ms

Name:Samples
 Tag:DISPLAY:Modulation Data
 Commands:GET
 Data Type:ARRAY
 Availability:
 Operating Mode:Generate, Duplex
 Typical Completion Time:100 ms

Name:Samples
 Tag:DISPLAY:External Data
 Commands:GET
 Data Type:ARRAY
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Typical Completion Time:100 ms

Name:Center Frequency
 Tag:DISPLAY:Monitor Frequency
 Commands:GET, SET
 Data Type:FLOAT
 Range: 250000 Hz to 1000000000 Hz
 Units: Hz, kHz, MHz, GHz
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:DISPLAY:Subzone=Spec An
 Typical Completion Time:5000 ms

Name:Span
 Tag:DISPLAY:Span
 Commands:GET, SET
 Data Type:FLOAT
 Range: 9751 Hz to 1000000000 Hz
 Units: Hz, kHz, MHz, GHz
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:DISPLAY:Subzone=Spec An
 Typical Completion Time:5000 ms

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 16 OF 172	

Name:Start Frequency
 Tag:DISPLAY:Start Frequency
 Commands:GET, SET
 Data Type:FLOAT
 Range: 250000 Hz to 1000000000 Hz
 Units: Hz, kHz, MHz, GHz
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:DISPLAY:Subzone=Spec An
 Typical Completion Time:5000 ms


Name:Stop Frequency
 Tag:DISPLAY:Stop Frequency
 Commands:GET, SET
 Data Type:FLOAT
 Range: 250000 Hz to 1000000000 Hz
 Units: Hz, kHz, MHz, GHz
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:DISPLAY:Subzone=Spec An
 Typical Completion Time:5000 ms

Name:See and Hear Active
 Tag:DISPLAY:SNH Active
 Commands:GET
 Data Type:BOOLEAN
 List Values:
 Availability:
 Menu:DISPLAY:Subzone=Spec An
 Typical Completion Time:0 ms

Name:Resolution Bandwidth
 Tag:DISPLAY:Resolution Bandwidth
 Commands:GET
 Data Type:FLOAT
 Availability:
 Menu:DISPLAY:Subzone=Spec An
 Typical Completion Time:0 ms

Name:Reference Level (dBm)
 Tag:DISPLAY:Reference Level
 Commands:GET, SET
 Data Type:INTEGER
 Range: -120 to 90
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:DISPLAY:Subzone=Spec An
 Typical Completion Time:100 ms

Name:Vertical Scale
 Tag:DISPLAY:Vertical Scale
 Commands:GET, SET
 Data Type:LIST
 List Values: 10 dB/div, 5 dB/div, 2 dB/div, 1 dB/div
 Availability:

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 17 OF 172	

Operating Mode:Monitor, Duplex
 Option:R8-ESA
 Menu:DISPLAY:Subzone=Spec An
 Typical Completion Time:100 ms


Name:Display Mode
 Tag:DISPLAY:Display Mode
 Commands:GET, SET
 Data Type:LIST
 List Values: Normal, Freeze, Max Hold, Average
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:DISPLAY:Subzone=Spec An
 Typical Completion Time:100 ms

Name:Trace Math
 Tag:DISPLAY:Trace Math
 Commands:GET, SET
 Data Type:LIST
 List Values: None, Spec-Ref (log),
 Spec-Ref
 (lin), Spec+Ref (lin)
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:DISPLAY:Subzone=Spec An
 Typical Completion Time:100 ms

Name:Set Reference Trace
 Tag:DISPLAY:Set Reference Trace
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:DISPLAY:Subzone=Spec An
 Typical Completion Time:100 ms

Name:Detector
 Tag:DISPLAY:Detector
 Commands:GET, SET
 Data Type:LIST
 List Values: Power, Peak, Sample, Mean, Valley
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:DISPLAY:Subzone=Spec An
 Typical Completion Time:200 ms

Name:Coupling
 Tag:DISPLAY:Coupling
 Commands:GET, SET
 Data Type:BOOLEAN
 List Values: DC, AC
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:DISPLAY:Subzone=Oscilloscope
 Typical Completion Time:500 ms

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 18 OF 172	


Name:Horizontal Scale
 Tag:DISPLAY:Horizontal Scale
 Commands:GET, SET
 Data Type:LIST
 List Values: 20 us, 50 us, 100 us, 200 us, 500 us, 1 ms, 2 ms, 5 ms, 10 ms, 20 ms, 50 ms, 100 ms, 200 ms, 500 ms, 1 s
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:DISPLAY:Subzone=Mod Scope
 Typical Completion Time:100 ms

Name:Horizontal Scale
 Tag:DISPLAY:Ext Horizontal Scale
 Commands:GET, SET
 Data Type:LIST
 List Values: 20 us (Max 50 kHz In), 50 us (Max 20 kHz In), 100 us (Max 10 kHz In), 200 us (Max 5 kHz In), 500 us (Max 2 kHz In), 1 ms (Max 1 kHz In), 2 ms (Max 500 Hz In), 5 ms (Max 200 Hz In), 10 ms (Max 100 Hz In), 20 ms (Max 50 Hz In), 50 ms (Max 20 Hz In), 100 ms (Max 10 Hz In), 200 ms (Max 5 Hz In), 500 ms (Max 2 Hz In), 1 s (Max 1 Hz In)
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:DISPLAY:Subzone=Oscilloscope
 Typical Completion Time:500 ms

Name:Vertical Scale
 Tag:DISPLAY:AM Vertical Scale
 Commands:GET, SET
 Data Type:LIST
 List Values: 1%, 2%, 5%, 10%, 20%, 50%
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:DISPLAY:Subzone=Mod Scope
 Typical Completion Time:100 ms

Name:Vertical Scale
 Tag:DISPLAY:FM Vertical Scale
 Commands:GET, SET
 Data Type:LIST
 List Values: 100 Hz, 200 Hz, 500 Hz, 1 kHz, 2 kHz, 5 kHz, 10 kHz, 20 kHz, 50 kHz
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:DISPLAY:Subzone=Mod Scope
 Typical Completion Time:100 ms

Name:Vertical Scale
 Tag:DISPLAY:Ext Vertical Scale
 Commands:GET, SET
 Data Type:LIST
 List Values: 50 mV, 100 mV, 200 mV, 500 mV, 1 V, 2 V, 5 V, 10 V, 15 V, 20 V, 25 V
 Availability:
 Operating Mode:Monitor, Generate, Duplex

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 19 OF 172	

Menu:DISPLAY:Subzone=Oscilloscope
 Typical Completion Time:500 ms


Name:Select View
 Tag:DISPLAY:Select View
 Commands:GET, SET
 Data Type:LIST
 List Values: Current [Test Mode=DMR], Alternate [Test Mode=DMR], Both [Test Mode=DMR], Frame [Test Mode=P25 II or Test Mode=TETRA DMO], Slot 1 [Test Mode=P25 II or Test Mode=TETRA DMO], Slot 2 [Test Mode=P25 II]
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:DISPLAY:Subzone=Power Profile
 Typical Completion Time:100 ms

Name:Select Frame
 Tag:DISPLAY:Frame
 Commands:GET, SET
 Data Type:LIST
 List Values: 1, 2, 3, 4, 5, 6
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:DISPLAY:Subzone=Power Profile
 Typical Completion Time:100 ms

Name:Vertical Maximum (dBm)
 Tag:DISPLAY:PP Vertical Maximum
 Commands:GET, SET
 Data Type:INTEGER
 Range: -120 to 60
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:DISPLAY:Subzone=Power Profile
 Typical Completion Time:100 ms

Name:Vertical Scale
 Tag:DISPLAY:PP Vertical Scale
 Commands:GET, SET
 Data Type:LIST
 List Values: 10 dB/div, 5 dB/div, 2 dB/div, 1 dB/div
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:DISPLAY:Subzone=Power Profile
 Typical Completion Time:100 ms

Name:Horizontal Start (ms)
 Tag:DISPLAY:PP Horizontal Start
 Commands:GET, SET
 Data Type:INTEGER
 Range: -100 to 4000
 Availability:
 Operating Mode:Monitor, Duplex
 Option:R8-PTC_ITCR
 Menu:DISPLAY:Subzone=Power Profile
 Typical Completion Time:100 ms

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 20 OF 172	

Name:Horizontal Start (ms)
 Tag:DISPLAY:PP Horizontal Start Wide
 Commands:GET, SET
 Data Type:INTEGER
 Range: -100 to 6000
 Availability:
 Operating Mode:Monitor, Duplex
 Option:R8-PTC_ACSES
 Menu:DISPLAY:Subzone=Power Profile
 Typical Completion Time:100 ms


Name:Horizontal Maximum (ms)
 Tag:DISPLAY:PP Horizontal Maximum
 Commands:GET, SET
 Data Type:INTEGER
 Range: -100 to 4000
 Availability:
 Operating Mode:Monitor, Duplex
 Option:R8-PTC_ITCR
 Menu:DISPLAY:Subzone=Power Profile
 Typical Completion Time:100 ms

Name:Horizontal Maximum (ms)
 Tag:DISPLAY:PP Horizontal Maximum Wide
 Commands:GET, SET
 Data Type:INTEGER
 Range: -100 to 6000
 Availability:
 Operating Mode:Monitor, Duplex
 Option:R8-PTC_ACSES
 Menu:DISPLAY:Subzone=Power Profile
 Typical Completion Time:100 ms

Name:Power Profile before Display Mode
 Tag:DISPLAY:Power Profile Data
 Commands:GET
 Data Type:ARRAY
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:DISPLAY:Subzone=Power Profile
 Typical Completion Time:100 ms

Name:Display Mode
 Tag:DISPLAY:PP Display Mode
 Commands:GET, SET
 Data Type:LIST
 List Values: Normal, Freeze, Max Hold, Average
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:DISPLAY:Subzone=Power Profile
 Typical Completion Time:100 ms

Name:Power Profile after Display Mode
 Tag:DISPLAY:Power Profile

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 21 OF 172	

Commands:GET
 Data Type:ARRAY
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:DISPLAY:Subzone=Power Profile
 Typical Completion Time:100 ms


Name:Update Power Profile
 Tag:DISPLAY:Power Profile Request
 Commands:
 Data Type:BOOLEAN
 List Values: F, T
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:DISPLAY:Subzone=Power Profile
 Typical Completion Time:100 ms

Name:Find Peak
 Tag:DISPLAY:Find Peak
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:DISPLAY:Subzone=Spec An
 Typical Completion Time:100 ms

Name:Center Peak
 Tag:DISPLAY:Center Peak
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:DISPLAY:Subzone=Spec An
 Typical Completion Time:5000 ms

Name:Trigger Mode
 Tag:DISPLAY:Trigger
 Commands:GET, SET
 Data Type:LIST
 List Values: Auto, Normal, Single
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:DISPLAY:Subzone=Mod Scope
 Typical Completion Time:100 ms

Name:Trigger Level
 Tag:DISPLAY:Trigger Level
 Commands:GET, SET
 Data Type:INTEGER
 Range: -200000 to 200000
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:DISPLAY:Subzone=Mod Scope
 Typical Completion Time:100 ms

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 22 OF 172	

Name:Trigger Level (%)
 Tag:DISPLAY:AM Trigger Level
 Commands:GET, SET
 Data Type:INTEGER
 Range: 0 to 99
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:DISPLAY:Subzone=Mod Scope
 Typical Completion Time:100 ms


Name:Trigger Position
 Tag:DISPLAY:Trigger Position
 Commands:GET, SET
 Data Type:LIST
 List Values: 10%, 50%, 90%
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:DISPLAY:Subzone=Mod Scope
 Typical Completion Time:0 ms

Name:Trigger Edge
 Tag:DISPLAY:Trigger Edge
 Commands:GET, SET
 Data Type:LIST
 List Values: Rising, Falling, Either
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:DISPLAY:Subzone=Mod Scope
 Typical Completion Time:100 ms

Name:Scope Mode
 Tag:DISPLAY:Mod Scope Select
 Commands:GET, SET
 Data Type:BOOLEAN
 List Values: Monitor, Generate
 Availability:
 Operating Mode:Duplex
 Menu:DISPLAY:Subzone=Mod Scope
 Typical Completion Time:100 ms

Name:Trigger Mode
 Tag:DISPLAY:Ext Trigger
 Commands:GET, SET
 Data Type:LIST
 List Values: Auto, Normal, Single, Freeze
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:DISPLAY:Subzone=Oscilloscope
 Typical Completion Time:500 ms

Name:Trigger Level
 Tag:DISPLAY:Ext Trigger Level
 Commands:GET, SET
 Data Type:FLOAT
 Range: -99.99 to 99.99

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 23 OF 172	

Availability:

Operating Mode:Monitor, Generate, Duplex
 Menu:DISPLAY:Subzone=Oscilloscope

Typical Completion Time:500 ms

Name:Trigger Position

Tag:DISPLAY:Ext Trigger Position

Commands:GET, SET

Data Type:LIST

List Values: 10%, 50%, 90%

Availability:

Operating Mode:Monitor, Generate, Duplex
 Menu:DISPLAY:Subzone=Oscilloscope

Typical Completion Time:500 ms

Name:Trigger Edge

Tag:DISPLAY:Ext Trigger Edge

Commands:GET, SET

Data Type:LIST

List Values: Rising, Falling, Either

Availability:

Operating Mode:Monitor, Generate, Duplex
 Menu:DISPLAY:Subzone=Oscilloscope

Typical Completion Time:500 ms

Name:Deviation Average

Tag:DISPLAY:Deviation Average

Commands:GET, SET

Data Type:LIST

List Values: Normal, Peak Average [Test Mode=Standard], Pwr-Weight Average [Test Mode=Standard], RMS Average [Test Mode=Standard], +/-Peak / 2 [Test Mode=Standard]

Availability:

Operating Mode:Monitor, Duplex
 Menu:DISPLAY:Subzone=Bar Graphs

Typical Completion Time:100 ms

Name:Display Mode

Tag:DISPLAY:Eye Display Mode

Commands:GET, SET

Data Type:LIST

List Values: Normal, Fade Away

Availability:

Operating Mode:Monitor, Duplex
 Menu:DISPLAY:Subzone=Eye Diagram

Typical Completion Time:100 ms

Name:Decode to Standard

Tag:DISPLAY:Standard


Commands:GET, SET

Data Type:LIST

List Values: None, CCIR1, CCIR2, PCCIR, CCITT, EEA, EIA, Euro, NATEL, MODAT, ZVEI1, ZVEI2, ZVEI3, PZVEI, DZVEI, PDZVEI

Availability:

Menu:DISPLAY:Subzone=General Sequence

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 24 OF 172	

Typical Completion Time:100 ms

Name:

Tag:DISPLAY:Distribution Data

Commands:GET

Data Type:ARRAY

Availability:

Operating Mode:Monitor, Duplex

Typical Completion Time:1100 ms

Name:Constellation Data

Tag:DISPLAY:Constellation Data

Commands:GET

Data Type:ARRAY

Availability:

Operating Mode:Monitor, Duplex

Typical Completion Time:100 ms

Name:

Tag:DISPLAY:SymbolDeviations

Commands:GET

Data Type:ARRAY

Availability:

Operating Mode:Monitor, Duplex

Typical Completion Time:1100 ms

Name:

Tag:DISPLAY:MagnitudeErrors

Commands:GET

Data Type:ARRAY

Availability:

Operating Mode:Monitor, Duplex

Typical Completion Time:1100 ms

Name:

Tag:DISPLAY:MaxDeviationErrors

Commands:GET

Data Type:ARRAY

Availability:

Operating Mode:Monitor, Duplex

Typical Completion Time:1100 ms

Name:

Tag:DISPLAY:SymbolDeviationErrors

Commands:GET

Data Type:ARRAY

Availability:

Operating Mode:Monitor, Duplex

Typical Completion Time:1100 ms


Name:

Tag:DISPLAY:MaxSymbolDeviationErrors

Commands:GET

Data Type:ARRAY

Availability:

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 25 OF 172	

Operating Mode:Monitor, Duplex
 Typical Completion Time:1100 ms

Name:

Tag:DISPLAY:ProtocolDetails

Commands:GET

Data Type:ARRAY

Availability:

Operating Mode:Monitor, Duplex
 Typical Completion Time:1100 ms

Name:Select Meter

Tag:METER:Subzone

Commands:GET, SET

Data Type:LIST

List Values: Power Meter [Test Mode=Standard or Test Mode=DMR or Test Mode=DPMR or Test Mode=NXDN or Test Mode=PROJECT 25 or Test Mode=P25 II], Voltmeter [Test Mode<>AVIONICS and Test Mode<>TETRA Base Station and Test Mode<>TETRA TMO], SINAD/Distortion [Test Mode=Standard], Decoder [Test Mode=Standard or Test Mode=PROJECT 25], Frequency Counter [Test Mode=Standard], P25 Trunking [Test Mode=P25 Trunk], Constellation [Test Mode=DMR or Test Mode=NXDN or Test Mode=P25 II or Test Mode=PTC-ACSES or Test Mode=PTC-ITCR], RF Scan [Test Mode=Standard or Test Mode=DPMR or Test Mode=NXDN or Test Mode=PROJECT 25], NXDN™ Trunking [Test Mode=NXDN Trunk], SNRMeter [Test Mode=Standard], Current Meter [Test Mode<>AVIONICS and Test Mode<>TETRA Base Station and Test Mode<>TETRA TMO]

Availability:

Operating Mode:Monitor, Generate, Duplex
 Typical Completion Time:100 ms

Name:Reset Meter Fields

Tag:METER:Reset Meter Fields

Commands:DO

Data Type:FUNCTION

Availability:

Operating Mode:Duplex
 Menu:METER:Subzone=P25 Trunking
 Typical Completion Time:100 ms

Name:Range

Tag:METER:PWR Meter Range

Commands:GET, SET

Data Type:LIST

List Values: 5W, 10W, 50W, 150W

Availability:

Operating Mode:Monitor, Generate, Duplex
 Menu:METER:Subzone=Power Meter
 Typical Completion Time:100 ms

Name:Measured Power


Tag:METER:Measured Power

Commands:GET

Data Type:FLOAT

Availability:

Operating Mode:Monitor, Duplex

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 26 OF 172	

Menu:METER:Subzone=Power Meter
 Typical Completion Time:0 ms

Name:Select Voltmeter Mode
 Tag:METER:Voltmeter
 Commands:GET, SET
 Data Type:LIST
 List Values: AC Volts, DC Volts
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:METER:Subzone=Voltmeter
 Typical Completion Time:100 ms


Name:Select SNRMeter Mode
 Tag:METER:SNRMeter
 Commands:GET, SET
 Data Type:LIST
 List Values: SNR
 Availability:
 Operating Mode:Monitor, Generate
 Menu:METER:Subzone=SNRMeter
 Typical Completion Time:100 ms

Name:Coupling
 Tag:METER:Coupling
 Commands:GET, SET
 Data Type:BOOLEAN
 List Values: DC, AC
 Availability:
 Menu:METER:Subzone=Voltmeter
 Typical Completion Time:500 ms

Name:AC Range
 Tag:METER:AC Range
 Commands:GET, SET
 Data Type:LIST
 List Values: Auto, 1 V, 10 V, 70 V
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:METER:Subzone=Voltmeter
 Typical Completion Time:100 ms

Name:Set dBr Reference
 Tag:METER:Set Reference
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:METER:Subzone=Voltmeter
 Typical Completion Time:100 ms

Name:Clear dBr Reference
 Tag:METER:Clear Reference
 Commands:DO
 Data Type:FUNCTION

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 27 OF 172	

Availability:

Operating Mode:Monitor, Generate, Duplex
 Menu:METER:Subzone=Voltmeter

Typical Completion Time:100 ms

Name:DC Range

Tag:METER:DC Range

Commands:GET, SET

Data Type:LIST

List Values: Auto, 1 V, 10 V, 100 V

Availability:

Operating Mode:Monitor, Generate, Duplex
 Menu:METER:Subzone=Voltmeter

Typical Completion Time:100 ms

Name:Voltage Units

Tag:METER:Voltage Units

Commands:GET, SET

Data Type:LIST

List Values: Volts (V), Millivolts (mV), Decibel Volts (dBV), Watts (W), Milliwatts (mW), Decibel mW (dBm)

Availability:

Operating Mode:Monitor, Generate, Duplex
 Menu:METER:Subzone=Voltmeter

Typical Completion Time:100 ms

Name:AC Volts

Tag:METER:AC Volts

Commands:GET

Data Type:FLOAT

Availability:

Operating Mode:Monitor, Generate, Duplex
 Menu:METER:Subzone=Voltmeter

Typical Completion Time:0 ms

Name:dBr

Tag:METER:AC Volts dBr

Commands:GET

Data Type:FLOAT

Availability:

Operating Mode:Monitor, Generate, Duplex
 Menu:METER:Subzone=Voltmeter

Typical Completion Time:0 ms

Name:AC Volts Convert

Tag:METER:AC Volts Convert

Commands:GET

Data Type:FLOAT


Availability:

Operating Mode:Monitor, Generate, Duplex
 Menu:METER:Subzone=Voltmeter

Typical Completion Time:0 ms

Name:DC Volts Convert

Tag:METER:DC Volts Convert

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 28 OF 172	

Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:METER:Subzone=Voltmeter
 Typical Completion Time:0 ms

Name:DC Volts
 Tag:METER:DC Volts
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:METER:Subzone=Voltmeter
 Typical Completion Time:0 ms


Name:Audio SNR (dB)
 Tag:METER:SNR
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Monitor, Generate
 Menu:METER:Subzone=SNRMeter
 Typical Completion Time:0 ms

Name:External Voltage (V)
 Tag:METER:Ext Volts
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:METER:Subzone=Current Meter
 Typical Completion Time:0 ms

Name:External Current (A)
 Tag:METER:Ext Amps
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:METER:Subzone=Current Meter
 Typical Completion Time:0 ms

Name:External Current Status
 Tag:METER:Ext Error
 Commands:GET
 Data Type:INTEGER
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:METER:Subzone=Current Meter
 Typical Completion Time:0 ms

Name>Select Audio Measurement
 Tag:METER:Audio Meter
 Commands:GET, SET

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 29 OF 172	

Data Type:LIST

List Values: SINAD/Ext Distortion [Test Mode=Standard], Internal Distortion [Test Mode=Standard]

Availability:

Operating Mode:Monitor, Generate, Duplex

Menu:METER:Subzone=SINAD/Distortion

Typical Completion Time:100 ms

Name:SINAD

Tag:METER:SINAD

Commands:GET

Data Type:FLOAT

Availability:

Operating Mode:Monitor, Generate, Duplex

Menu:METER:Subzone=SINAD/Distortion

Typical Completion Time:0 ms

Name:External Distortion

Tag:METER:External Distortion

Commands:GET

Data Type:FLOAT

Availability:

Operating Mode:Monitor, Generate, Duplex

Menu:METER:Subzone=SINAD/Distortion

Typical Completion Time:0 ms

Name:Internal Distortion

Tag:METER:Internal Distortion

Commands:GET

Data Type:FLOAT

Availability:

Operating Mode:Monitor, Generate, Duplex

Menu:METER:Subzone=SINAD/Distortion

Typical Completion Time:0 ms

Name>Select Decoder Type

Tag:METER:Decoder

Commands:GET, SET

Data Type:LIST

List Values: PL/Period Counter [Test Mode=Standard], DPL Decode [Test Mode=Standard], DTMF Decode [Test Mode=Standard], 2-Tone Decode [Test Mode=Standard], 5/6 Tone Decode [Test Mode=Standard], General Sequence [Test Mode=Standard], Voice Frame Decode [Test Mode=PROJECT 25]

Availability:

Operating Mode:Monitor, Generate, Duplex

Menu:METER:Subzone=Decoder

Typical Completion Time:100 ms

Name:Reset

Tag:METER:Reset


Commands:DO

Data Type:FUNCTION

Availability:

Operating Mode:Monitor, Generate, Duplex

Menu:METER:Subzone=Decoder, Frequency Counter

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 30 OF 172	

Typical Completion Time:100 ms

Name:PL Freq
 Tag:METER:PL Frequency
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:METER:Subzone=Decoder
 Typical Completion Time:0 ms


Name:PL Code
 Tag:METER:PL Code
 Commands:GET
 Data Type:STRING
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:METER:Subzone=Decoder
 Typical Completion Time:0 ms

Name:DPL Code
 Tag:METER:DPL Code
 Commands:GET
 Data Type:STRING
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:METER:Subzone=Decoder
 Typical Completion Time:0 ms

Name:DTMF Code
 Tag:METER:DTMF Code
 Commands:GET
 Data Type:STRING
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:METER:Subzone=Decoder
 Typical Completion Time:0 ms

Name:General Sequence Decodes
 Tag:METER:GenSeqDecodes
 Commands:GET
 Data Type:ARRAY
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:METER:Subzone=Decoder
 Typical Completion Time:0 ms

Name:Decode
 Tag:METER:Decode
 Commands:GET, SET
 Data Type:LIST
 List Values: Stop, Start
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:METER:Subzone=Decoder

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 31 OF 172	

Typical Completion Time:500 ms

Name:Code Sequence
 Tag:METER:Code Sequence
 Commands:GET, SET
 Data Type:STRING
 Format:(GENSEQCode)
 char set:0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F, G, H, I, J
 Availability:
 Operating Mode:Duplex
 Typical Completion Time:100 ms


Name:Decode Burst
 Tag:METER:Decode Burst
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:Duplex
 Typical Completion Time:500 ms

Name:Tone1 Freq.
 Tag:METER:Tone1 Freq
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:METER:Subzone=Decoder
 Typical Completion Time:0 ms

Name:Tone1 Duration
 Tag:METER:Tone1 Duration
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:METER:Subzone=Decoder
 Typical Completion Time:0 ms

Name:Tone2 Freq.
 Tag:METER:Tone2 Freq
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:METER:Subzone=Decoder
 Typical Completion Time:0 ms

Name:Tone2 Duration
 Tag:METER:Tone2 Duration
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:METER:Subzone=Decoder
 Typical Completion Time:0 ms

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 32 OF 172	

Name:5/6 Codes
 Tag:METER:56_Codes
 Commands:GET
 Data Type:STRING
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:METER:Subzone=Decoder
 Typical Completion Time:0 ms


Name:5/6 Freqs
 Tag:METER:56_Freqs
 Commands:GET
 Data Type:ARRAY
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:METER:Subzone=Decoder
 Typical Completion Time:100 ms

Name:5/6 Durations
 Tag:METER:56_Durs
 Commands:GET
 Data Type:ARRAY
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:METER:Subzone=Decoder
 Typical Completion Time:100 ms

Name:Decode to Standard
 Tag:METER:Standard
 Commands:GET, SET
 Data Type:LIST
 List Values: None, CCIR1, CCIR2, PCCIR, CCITT, EEA, EIA, Euro, NATEL, MODAT, ZVEI1, ZVEI2, ZVEI3, PZVEI, DZVEI, PDZVEI
 Availability:
 Menu:METER:Subzone=Decoder
 Typical Completion Time:500 ms

Name:High Pass Filter
 Tag:METER:High Pass Filter
 Commands:GET, SET
 Data Type:LIST
 List Values: 1 Hz, 300 Hz, 3 kHz, None
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:METER:Subzone=Decoder
 Typical Completion Time:100 ms

Name:Low Pass Filter
 Tag:METER:Low Pass Filter
 Commands:GET, SET
 Data Type:LIST
 List Values: 300 Hz, 3 kHz, 20 kHz
 Availability:
 Operating Mode:Monitor, Generate, Duplex

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 33 OF 172	

Menu:METER:Subzone=Decoder
 Typical Completion Time:100 ms

Name:Input Decoding
 Tag:METER:Input Decoding
 Commands:GET, SET
 Data Type:BOOLEAN
 List Values:Internal, External
 Availability:

Menu:METER:Subzone=Decoder, Frequency Counter
 Typical Completion Time:100 ms

Name:Frequency Counter
 Tag:METER:Frequency Counter
 Commands:GET
 Data Type:FLOAT
 Availability:

Operating Mode:Monitor, Duplex
 Menu:METER:Subzone=Frequency Counter
 Typical Completion Time:0 ms

Name:Resolution
 Tag:METER:Resolution
 Commands:GET, SET
 Data Type:LIST
 List Values:0.001 Hz, 0.01 Hz, 0.1 Hz, 1.0 Hz, 10 Hz
 Availability:

Operating Mode:Monitor, Generate, Duplex
 Menu:METER:Subzone=Frequency Counter
 Typical Completion Time:100 ms

Name:Test Status
 Tag:METER:Trunk Status
 Commands:GET
 Data Type:STRING
 Availability:


Operating Mode:Monitor, Duplex
 Menu:METER:Subzone=P25 Trunking
 Typical Completion Time:0 ms

Name:Deviations
 Tag:METER:Constellation
 Commands:GET
 Data Type:ARRAY
 Availability:

Operating Mode:Monitor, Duplex
 Typical Completion Time:100 ms

Name:Start Frequency (MHz)
 Tag:METER:Start Frequency
 Commands:GET, SET
 Data Type:INTEGER
 Range:1 to 3000
 Availability:

Operating Mode:Monitor

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 34 OF 172	

Menu:METER:Subzone=RF Scan
 Typical Completion Time:5000 ms

Name:Stop Frequency (MHz)
 Tag:METER:Stop Frequency
 Commands:GET, SET
 Data Type:INTEGER
 Range: 1 to 3000
 Availability:
 Operating Mode:Monitor
 Menu:METER:Subzone=RF Scan
 Typical Completion Time:5000 ms


Name:Scan
 Tag:METER:Run RF Scan
 Commands:GET, SET
 Data Type:LIST
 List Values: Off, Single, Auto
 Availability:
 Operating Mode:Monitor
 Menu:METER:Subzone=RF Scan
 Typical Completion Time:100 ms

Name:RF Scan State
 Tag:METER:RF Scan State
 Commands:GET
 Data Type:LIST
 List Values: Disabled, Scanning, Locked, Inactive
 Availability:
 Operating Mode:Monitor
 Menu:METER:Subzone=RF Scan
 Typical Completion Time:0 ms

Name:Spectrum
 Tag:METER:RF Scan Data
 Commands:GET
 Data Type:ARRAY
 Availability:
 Operating Mode:Monitor
 Menu:METER:Subzone=RF Scan
 Typical Completion Time:0 ms

Name:Test Status
 Tag:METER:NXDN Trunk Status
 Commands:GET
 Data Type:STRING
 Availability:
 Operating Mode:Duplex
 Menu:METER:Subzone=NXDN™ Trunking
 Typical Completion Time:0 ms

Name:Toggle with DO RF:RF Power
 Tag:RF:RF Power
 Commands:GET, SET
 Data Type:BOOLEAN

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 35 OF 172	

List Values: Off, On

Availability:

Operating Mode:Generate, Duplex

Typical Completion Time:100 ms

Name:Monitor Frequency

Tag:RF:Monitor Frequency

Commands:GET, SET

Data Type:FLOAT

Range: 250000 Hz to 1000000000 Hz

Units: Hz, kHz, MHz, GHz

Availability:

Operating Mode:Monitor, Duplex

Typical Completion Time:5000 ms

Name:Copy Frequency to Generator

Tag:RF:Copy Mon to Gen

Commands:DO

Data Type:FUNCTION

Availability:

Operating Mode:Monitor

Typical Completion Time:5000 ms

Name:Duplex Offset

Tag:RF:Duplex Offset

Commands:GET, SET

Data Type:FLOAT

Range: -1000000000 Hz to 1000000000 Hz

Units: Hz, kHz, MHz, GHz

Availability:

Operating Mode:Duplex

Typical Completion Time:5000 ms

Name:Generate Frequency

Tag:RF:Generate Frequency

Commands:GET, SET

Data Type:FLOAT

Range: 250000 Hz to 1000000000 Hz

Units: Hz, kHz, MHz, GHz

Availability:

Operating Mode:Generate, Duplex

Typical Completion Time:5000 ms

Name:Copy Frequency to Monitor

Tag:RF:Copy Gen to Mon

Commands:DO

Data Type:FUNCTION

Availability:

Operating Mode:Generate


Typical Completion Time:5000 ms

Name:Modulation Type

Tag:RF:Modulation Type

Commands:GET, SET

Data Type:LIST

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 36 OF 172	

List Values: FM [Test Mode=Standard], AM [Test Mode=Standard], USB [Test Mode=Standard and Option=R8-SSB], LSB [Test Mode=Standard and Option=R8-SSB], 4FSK [Test Mode=DMR or Test Mode=DPMR or Test Mode=NXDN or Test Mode=NXDN Trunk], GMSK~ [Test Mode=PTC-ACSES], C4FM [Test Mode=PROJECT 25 or Test Mode=P25 Trunk], LSM [Test Mode=PROJECT 25 or Test Mode=P25 Trunk], WCQPSK [Test Mode=PROJECT 25 or Test Mode=P25 Trunk], PI/4 DQPSK [Test Mode=PTC-ITCR or Test Mode=TETRA DMO or Test Mode=TETRA TMO or Test Mode=TETRA Base Station], HCPM [Test Mode=P25 II], HDQPSK [Test Mode=P25 II and Operating Mode=Monitor or Test Mode=P25 II and Operating Mode=Generate]

Availability:

Operating Mode:Monitor, Generate, Duplex

Typical Completion Time:100 ms

Name:Output Units

Tag:RF:Output Lvl Units

Commands:GET, SET

Data Type:LIST

List Values: dBm, Volts, mV, μ V, Watts, mW, μ W

Availability:

Operating Mode:Generate, Duplex

Typical Completion Time:500 ms

Name:Output Level (dBm)

Tag:RF:Output Lvl

Commands:GET, SET

Data Type:FLOAT

Availability:

Operating Mode:Generate, Duplex

Typical Completion Time:500 ms

Name:Output Level (dBm)

Tag:RF:Output Level

Commands:GET, SET

Data Type:FLOAT

Range: -130 to 5

Availability:

Operating Mode:Generate, Duplex

Typical Completion Time:500 ms

Name:Gen Port

Tag:RF:Generate Port

Commands:GET, SET

Data Type:BOOLEAN

List Values: RF In/Out, Gen Out

Availability:

Operating Mode:Generate, Duplex

Typical Completion Time:500 ms

Name:Bandwidth


Tag:RF:Bandwidth

Commands:GET, SET

Data Type:LIST

List Values: 6.25 kHz (Narrow), 8.33 kHz (Narrow), 10 kHz (Narrow), 12.5 kHz (Narrow), 25 kHz (Wide), 50 kHz (Wide), 100 kHz (Wide), 200 kHz (Wide)

Availability:

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 37 OF 172	

Operating Mode:Monitor, Generate, Duplex
 Typical Completion Time:100 ms

Name:Attenuation
 Tag:RF:Attenuation
 Commands:GET, SET
 Data Type:LIST
 List Values: 0 dB, 2 dB, 4 dB, 6 dB, 8 dB, 10 dB, 12 dB, 14 dB, 16 dB, 18 dB, 20 dB, 22 dB, 24 dB, 26 dB, 28 dB, 30 dB, 32 dB, 34 dB, 36 dB, 38 dB, 40 dB, 42 dB, 44 dB, 46 dB, 48 dB, 50 dB, 52 dB, 54 dB, 56 dB, 58 dB, 60 dB, 62 dB
 Availability:
 Operating Mode:Monitor, Duplex
 Typical Completion Time:500 ms


Name:Pre-Amplifier
 Tag:RF:PreAmp On
 Commands:GET, SET
 Data Type:BOOLEAN
 List Values: Off, On
 Availability:
 Operating Mode:Monitor, Duplex
 Typical Completion Time:500 ms

Name:Mon Port
 Tag:RF:Monitor Port
 Commands:GET, SET
 Data Type:BOOLEAN
 List Values: RF In/Out, Antenna
 Availability:
 Operating Mode:Monitor, Duplex
 Typical Completion Time:500 ms

Name:Input Source
 Tag:RF:Input Source
 Commands:GET, SET
 Data Type:LIST
 List Values: Auto, Input Level, Power Meter
 Availability:
 Operating Mode:Monitor, Duplex
 Typical Completion Time:100 ms

Name:Input Units
 Tag:RF:Input Lvl Units
 Commands:GET, SET
 Data Type:LIST
 List Values: dBm, Volts, mV, μ V, Watts, mW, μ W
 Availability:
 Operating Mode:Monitor, Duplex
 Typical Completion Time:100 ms

Name:Freq Error Units
 Tag:RF:Frequency Error Units
 Commands:GET, SET
 Data Type:LIST
 List Values: Hertz, PPM

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 38 OF 172	

Availability:

Operating Mode:Monitor, Duplex
 Typical Completion Time:100 ms

Name:Receiver Overload

Tag:RF:RX Overload

Commands:GET

Data Type:BOOLEAN

List Values: Okay, Receiver Overload - Increase Attenuation

Typical Completion Time:0 ms

Name:Mod Port Mode

Tag:AUDIO:Mod Port

Commands:GET, SET

Data Type:BOOLEAN

List Values: In, Out

Availability:

Operating Mode:Generate, Duplex

Menu:AUDIO

Typical Completion Time:100 ms

Name:Fixed 1kHz Level (V)

Tag:AUDIO:Fixed 1kHz

Commands:GET, SET

Data Type:FLOAT

Range: 0 to 8

Availability:

Operating Mode:Monitor

Menu:AUDIO

Typical Completion Time:100 ms

Name:Fixed 1kHz Level (kHz)

Tag:AUDIO:Gen Fixed 1kHz

Commands:GET, SET

Data Type:FLOAT

Range: 0 to 100

Availability:

Operating Mode:Generate, Duplex

Menu:AUDIO

Typical Completion Time:100 ms

Name:Fixed 1kHz Level (%AM)

Tag:AUDIO:Gen AM Fixed 1kHz

Commands:GET, SET

Data Type:INTEGER

Range: 0 to 99

Availability:

Operating Mode:Generate, Duplex

Menu:AUDIO


Typical Completion Time:100 ms

Name:Fixed 1kHz Mode

Tag:AUDIO:Fixed 1kHz Mode

Commands:GET, SET

Data Type:LIST

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 39 OF 172	

List Values: Off, Continuous

Availability:

Operating Mode:Monitor, Generate, Duplex

Menu:AUDIO

Typical Completion Time:100 ms

Name:Synth Level (V)

Tag:AUDIO:Synth

Commands:GET, SET

Data Type:FLOAT

Range: 0 to 8

Availability:

Operating Mode:Monitor

Menu:AUDIO

Typical Completion Time:100 ms

Name:Synth Level (kHz)

Tag:AUDIO:Gen Synth

Commands:GET, SET

Data Type:FLOAT

Range: 0 to 100

Availability:

Operating Mode:Generate, Duplex

Menu:AUDIO

Typical Completion Time:100 ms

Name:Synth Level (%AM)

Tag:AUDIO:Gen AM Synth

Commands:GET, SET

Data Type:INTEGER

Range: 0 to 99

Availability:

Operating Mode:Generate, Duplex

Menu:AUDIO

Typical Completion Time:100 ms

Name:Format

Tag:AUDIO:Format

Commands:GET, SET

Data Type:LIST

List Values: PL, DPL, DPL Invert, A/B Sequence, 5/6 Tone, POCSAG, General Sequence

Availability:

Operating Mode:Monitor, Generate, Duplex

Menu:AUDIO

Typical Completion Time:1000 ms

Name:Synth Mode


Tag:AUDIO:Synth Mode

Commands:GET, SET

Data Type:LIST

List Values: Off, Continuous, Burst [AUDIO:Format=A/B Sequence or AUDIO:Format=5/6 Tone or AUDIO:Format=POCSAG or AUDIO:Format=General Sequence], Disconnect Tone [AUDIO:Format=DPL or AUDIO:Format=DPL Invert]

Availability:

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 40 OF 172	


Operating Mode:Monitor, Generate, Duplex
 Menu:AUDIO
 Typical Completion Time:500 ms

Name:PL Code
 Tag:AUDIO:PL Code
 Commands:GET, SET
 Data Type:LIST
 List Values: XZ, WZ, XA, WA, XB, WB, YZ, YA, YB, ZZ, ZA, ZB, 1Z, 1A, 1B, 2Z, 2A, 2B, 3Z, 3A, 3B, 4Z, 4A, 4B, 5Z, 5A, 5B, 6Z, 6A, 6B, 7Z, 7A, M1, 8Z, M2, M3, M4, 9Z, M5, M6, M7
 Availability:
 Synth Format:PL
 Operating Mode:Monitor, Generate, Duplex
 Menu:AUDIO
 Typical Completion Time:100 ms

Name:PL Frequency (Hz)
 Tag:AUDIO:PL Frequency
 Commands:GET
 Data Type:FLOAT
 Range: 0 to 999
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:AUDIO
 Typical Completion Time:100 ms

Name:PL Table
 Tag:AUDIO:PL Table
 Commands:GO
 Data Type:SUBMENU
 Availability:
 Synth Format:PL
 Operating Mode:Monitor, Generate, Duplex
 Menu:AUDIO
 Typical Completion Time:2000 ms

Name:DPL Code
 Tag:AUDIO:DPL Code
 Commands:GET, SET
 Data Type:LIST
 List Values: 000, 001, 002, 003, 004, 005, 006, 007, 010, 011, 012, 013, 014, 015, 016, 017, 020, 021, 022, 023, 024, 025, 026, 027, 030, 031, 032, 033, 034, 035, 036, 037, 040, 041, 042, 043, 044, 045, 046, 047, 050, 051, 052, 053, 054, 055, 056, 057, 060, 061, 062, 063, 064, 065, 066, 067, 070, 071, 072, 073, 074, 075, 076, 077, 100, 101, 102, 103, 104, 105, 106, 107, 110, 111, 112, 113, 114, 115, 116, 117, 120, 121, 122, 123, 124, 125, 126, 127, 130, 131, 132, 133, 134, 135, 136, 137, 140, 141, 142, 143, 144, 145, 146, 147, 150, 151, 152, 153, 154, 155, 156, 157, 160, 161, 162, 163, 164, 165, 166, 167, 170, 171, 172, 173, 174, 175, 176, 177, 200, 201, 202, 203, 204, 205, 206, 207, 210, 211, 212, 213, 214, 215, 216, 217, 220, 221, 222, 223, 224, 225, 226, 227, 230, 231, 232, 233, 234, 235, 236, 237, 240, 241, 242, 243, 244, 245, 246, 247, 250, 251, 252, 253, 254, 255, 256, 257, 260, 261, 262, 263, 264, 265, 266, 267, 270, 271, 272, 273, 274, 275, 276, 277, 300, 301, 302, 303, 304, 305, 306, 307, 310, 311, 312, 313, 314, 315, 316, 317,

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 41 OF 172	

320, 321, 322, 323, 324, 325, 326, 327, 330, 331, 332, 333, 334, 335, 336,
 337, 340, 341, 342, 343, 344, 345, 346, 347, 350, 351, 352, 353, 354, 355,
 356, 357, 360, 361, 362, 363, 364, 365, 366, 367, 370, 371, 372, 373, 374,
 375, 376, 377, 400, 401, 402, 403, 404, 405, 406, 407, 410, 411, 412, 413,
 414, 415, 416, 417, 420, 421, 422, 423, 424, 425, 426, 427, 430, 431, 432,
 433, 434, 435, 436, 437, 440, 441, 442, 443, 444, 445, 446, 447, 450, 451,
 452, 453, 454, 455, 456, 457, 460, 461, 462, 463, 464, 465, 466, 467, 470,
 471, 472, 473, 474, 475, 476, 477, 500, 501, 502, 503, 504, 505, 506, 507,
 510, 511, 512, 513, 514, 515, 516, 517, 520, 521, 522, 523, 524, 525, 526,
 527, 530, 531, 532, 533, 534, 535, 536, 537, 540, 541, 542, 543, 544, 545,
 546, 547, 550, 551, 552, 553, 554, 555, 556, 557, 560, 561, 562, 563, 564,
 565, 566, 567, 570, 571, 572, 573, 574, 575, 576, 577, 600, 601, 602, 603,
 604, 605, 606, 607, 610, 611, 612, 613, 614, 615, 616, 617, 620, 621, 622,
 623, 624, 625, 626, 627, 630, 631, 632, 633, 634, 635, 636, 637, 640, 641,
 642, 643, 644, 645, 646, 647, 650, 651, 652, 653, 654, 655, 656, 657, 660,
 661, 662, 663, 664, 665, 666, 667, 670, 671, 672, 673, 674, 675, 676, 677,
 700, 701, 702, 703, 704, 705, 706, 707, 710, 711, 712, 713, 714, 715, 716,
 717, 720, 721, 722, 723, 724, 725, 726, 727, 730, 731, 732, 733, 734, 735,
 736, 737, 740, 741, 742, 743, 744, 745, 746, 747, 750, 751, 752, 753, 754,
 755, 756, 757, 760, 761, 762, 763, 764, 765, 766, 767, 770, 771, 772, 773,
 774, 775, 776, 777

Availability:

Synth Format:DPL, DPL Invert
 Operating Mode:Monitor, Generate, Duplex
 Menu:AUDIO

Typical Completion Time:100 ms

Name:A/B Sequence

Tag:AUDIO:Sequence

Commands:GET, SET

Data Type:LIST

List Values: 1, 2, 3, 4

Availability:

Synth Format:A/B Sequence
 Operating Mode:Monitor, Generate, Duplex
 Menu:AUDIO

Typical Completion Time:100 ms

Name:Code Sequence

Tag:AUDIO:Code Sequence

Commands:GET, SET

Data Type:STRING

Format:(GENSEQCode)

char set:0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F, G, H, I, J

Availability:

Synth Format:General Sequence
 Operating Mode:Monitor, Generate, Duplex
 Menu:AUDIO

Typical Completion Time:100 ms


Name:A/B Sequence Table

Tag:AUDIO:SEQUENCE Table

Commands:GO

Data Type:SUBMENU

Availability:

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 42 OF 172	

Synth Format:A/B Sequence
 Operating Mode:Monitor, Generate, Duplex
 Menu:AUDIO
 Typical Completion Time:2000 ms


Name:General Sequence Table
 Tag:AUDIO:GENSEQ Table
 Commands:GO
 Data Type:SUBMENU
 Availability:
 Synth Format:General Sequence
 Operating Mode:Monitor, Generate, Duplex
 Menu:AUDIO
 Typical Completion Time:2000 ms

Name:5/6 Tone
 Tag:AUDIO:5/6 Tone
 Commands:GET, SET
 Data Type:STRING
 Format:(56Tone)
 char set:0, 1, 2, 3, 4, 5, 6, 7, 8, 9
 Availability:
 Synth Format:5/6 Tone
 Operating Mode:Monitor, Generate, Duplex
 Menu:AUDIO
 Typical Completion Time:100 ms

Name:POCSAG Message
 Tag:AUDIO:POCSAG Message
 Commands:GET, SET
 Data Type:LIST
 List Values: Tone Only, NumericNum, NumericSet, AlphaNumUC, AlphaNumLC, AlphaNumSP, NumericCust, AlphaNumCust
 Availability:
 Synth Format:POCSAG
 Operating Mode:Monitor, Generate, Duplex
 Menu:AUDIO
 Typical Completion Time:100 ms

Name:POCSAG Table
 Tag:AUDIO:POCSAG Table
 Commands:GO
 Data Type:SUBMENU
 Availability:
 Synth Format:POCSAG
 Operating Mode:Monitor, Generate, Duplex
 Menu:AUDIO
 Typical Completion Time:2000 ms

Name:Tone A Level (V)
 Tag:AUDIO:Tone A
 Commands:GET, SET
 Data Type:FLOAT
 Range: 0 to 8
 Availability:

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 43 OF 172	

Operating Mode:Monitor
 Menu:AUDIO
 Typical Completion Time:100 ms

Name:Tone A Level (kHz)
 Tag:AUDIO:Gen Tone A
 Commands:GET, SET
 Data Type:FLOAT
 Range: 0 to 100
 Availability:
 Operating Mode:Generate, Duplex
 Menu:AUDIO
 Typical Completion Time:100 ms


Name:Tone A Level (%AM)
 Tag:AUDIO:Gen AM Tone A
 Commands:GET, SET
 Data Type:INTEGER
 Range: 0 to 99
 Availability:
 Operating Mode:Generate, Duplex
 Menu:AUDIO
 Typical Completion Time:100 ms

Name:Tone A Frequency (Hz)
 Tag:AUDIO:Tone A Frequency
 Commands:GET, SET
 Data Type:FLOAT
 Range: 0 to 20000
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:AUDIO
 Typical Completion Time:100 ms

Name:Tone A Mode
 Tag:AUDIO:Tone A Mode
 Commands:GET, SET
 Data Type:LIST
 List Values: Off, Continuous, Burst
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:AUDIO
 Typical Completion Time:100 ms

Name:Tone B Level (V)
 Tag:AUDIO:Tone B
 Commands:GET, SET
 Data Type:FLOAT
 Range: 0 to 8
 Availability:
 Operating Mode:Monitor
 Menu:AUDIO
 Typical Completion Time:100 ms

Name:Tone B Level (kHz)

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 44 OF 172	

Tag:AUDIO:Gen Tone B
 Commands:GET, SET
 Data Type:FLOAT
 Range: 0 to 100
 Availability:
 Operating Mode:Generate, Duplex
 Menu:AUDIO
 Typical Completion Time:100 ms


Name:Tone B Level (%AM)
 Tag:AUDIO:Gen AM Tone B
 Commands:GET, SET
 Data Type:INTEGER
 Range: 0 to 99
 Availability:
 Operating Mode:Generate, Duplex
 Menu:AUDIO
 Typical Completion Time:100 ms

Name:Tone B Frequency (Hz)
 Tag:AUDIO:Tone B Frequency
 Commands:GET, SET
 Data Type:FLOAT
 Range: 0 to 20000
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:AUDIO
 Typical Completion Time:100 ms

Name:Tone B Mode
 Tag:AUDIO:Tone B Mode
 Commands:GET, SET
 Data Type:LIST
 List Values: Off, Continuous, Burst
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:AUDIO
 Typical Completion Time:100 ms

Name:Tone C Level (kHz)
 Tag:AUDIO:Gen Tone C
 Commands:GET, SET
 Data Type:FLOAT
 Range: 0 to 100
 Availability:
 Operating Mode:Generate, Duplex
 Menu:AUDIO
 Typical Completion Time:100 ms

Name:Tone C Level (%AM)
 Tag:AUDIO:Gen AM Tone C
 Commands:GET, SET
 Data Type:INTEGER
 Range: 0 to 99
 Availability:

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 45 OF 172	

Operating Mode:Generate, Duplex
 Menu:AUDIO
 Typical Completion Time:100 ms

Name:Tone C Frequency (Hz)
 Tag:AUDIO:Tone C Frequency
 Commands:GET, SET
 Data Type:FLOAT
 Range: 0 to 99999.9
 Availability:

Operating Mode:Generate, Duplex
 Menu:AUDIO
 Typical Completion Time:100 ms

Name:Tone C Mode
 Tag:AUDIO:Tone C Mode
 Commands:GET, SET
 Data Type:LIST
 List Values: Off, Continuous
 Availability:

Operating Mode:Generate, Duplex
 Menu:AUDIO
 Typical Completion Time:100 ms

Name:DTMF Level (V)
 Tag:AUDIO:DTMF
 Commands:GET, SET
 Data Type:FLOAT
 Range: 0 to 8
 Availability:

Operating Mode:Monitor
 Menu:AUDIO
 Typical Completion Time:100 ms


Name:DTMF Level (kHz)
 Tag:AUDIO:Gen DTMF
 Commands:GET, SET
 Data Type:FLOAT
 Range: 0 to 100
 Availability:

Operating Mode:Generate, Duplex
 Menu:AUDIO
 Typical Completion Time:100 ms

Name:DTMF Level (%AM)
 Tag:AUDIO:Gen AM DTMF
 Commands:GET, SET
 Data Type:INTEGER
 Range: 0 to 99
 Availability:

Operating Mode:Generate, Duplex
 Menu:AUDIO
 Typical Completion Time:100 ms

Name:DTMF Mode

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 46 OF 172	

Tag:AUDIO:DTMF Mode
 Commands:GET, SET
 Data Type:LIST
 List Values: Off, Continuous, Burst
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:AUDIO
 Typical Completion Time:500 ms


Name:DTMF Code
 Tag:AUDIO:DTMF Code
 Commands:GET, SET
 Data Type:STRING
 Format:(DTMFCode)
 char set:0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, #, *
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:AUDIO
 Typical Completion Time:100 ms

Name:DTMF Table
 Tag:AUDIO:DTMF Table
 Commands:GO
 Data Type:SUBMENU
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:AUDIO
 Typical Completion Time:2000 ms

Name:Microphone Level (V)
 Tag:AUDIO:Microphone
 Commands:GET, SET
 Data Type:FLOAT
 Range: 0 to 8
 Availability:
 Operating Mode:Monitor
 Menu:AUDIO
 Typical Completion Time:100 ms

Name:Microphone Level (kHz)
 Tag:AUDIO:Gen Microphone
 Commands:GET, SET
 Data Type:FLOAT
 Range: 0 to 100
 Availability:
 Operating Mode:Generate, Duplex
 Menu:AUDIO
 Typical Completion Time:100 ms

Name:Microphone Level (%AM)
 Tag:AUDIO:Gen AM Microphone
 Commands:GET, SET
 Data Type:INTEGER
 Range: 0 to 99
 Availability:

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 47 OF 172	

Operating Mode:Generate, Duplex
 Menu:AUDIO
 Typical Completion Time:100 ms

Name:Microphone Mode
 Tag:AUDIO:Microphone Mode
 Commands:GET, SET
 Data Type:BOOLEAN
 List Values: Off, Continuous
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:AUDIO
 Typical Completion Time:500 ms


Name:Mod In Port Level (kHz)
 Tag:AUDIO:Gen Mod In Level
 Commands:GET, SET
 Data Type:FLOAT
 Range: 0 to 100
 Availability:
 Operating Mode:Generate, Duplex
 Menu:AUDIO
 Typical Completion Time:100 ms

Name:Mod In Port Level (%AM)
 Tag:AUDIO:Gen AM Mod In Level
 Commands:GET, SET
 Data Type:INTEGER
 Range: 0 to 99
 Availability:
 Operating Mode:Generate, Duplex
 Menu:AUDIO
 Typical Completion Time:100 ms

Name:Mod In Port Mode
 Tag:AUDIO:Mod In Mode
 Commands:GET, SET
 Data Type:LIST
 List Values: Off, Continuous
 Availability:
 Operating Mode:Generate, Duplex
 Menu:AUDIO
 Typical Completion Time:100 ms

Name:High Pass Filter
 Tag:AUDIO:High Pass Filter
 Commands:GET, SET
 Data Type:LIST
 List Values: 1 Hz, 300 Hz, 3 kHz, None
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:AUDIO
 Typical Completion Time:100 ms

Name:Low Pass Filter

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 48 OF 172	

Tag:AUDIO:Low Pass Filter
 Commands:GET, SET
 Data Type:LIST
 List Values: 300 Hz, 3 kHz, 20 kHz
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:AUDIO
 Typical Completion Time:100 ms


Name:Voltage Units
 Tag:AUDIO:Voltage Units
 Commands:GET, SET
 Data Type:LIST
 List Values: Volts (V), Millivolts (mV), Decibel Volts (dBV), Watts (W), Milliwatts (mW), Decibel mW (dBm)
 Availability:
 Operating Mode:Monitor
 Menu:AUDIO
 Typical Completion Time:100 ms

Name:Audio Output Load (Ohm)
 Tag:AUDIO:Audio Output Load
 Commands:GET, SET
 Data Type:INTEGER
 Range: 1 to 10000
 Availability:
 Operating Mode:Monitor
 Menu:AUDIO
 Typical Completion Time:100 ms

Name:Audio Sum
 Tag:AUDIO:Audio Sum
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Monitor
 Menu:AUDIO
 Typical Completion Time:0 ms

Name:Mod Sum
 Tag:AUDIO:Mod Sum
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Generate, Duplex
 Menu:AUDIO
 Typical Completion Time:0 ms

Name:AM Mod Sum
 Tag:AUDIO:AM Mod Sum
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Generate, Duplex
 Menu:AUDIO

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 49 OF 172	

Typical Completion Time:0 ms

Name:PL Code

Tag:PL:PL Code

Commands:GET, SET

Data Type:LIST

List Values: XZ, WZ, XA, WA, XB, WB, YZ, YA, YB, ZZ, ZA, ZB, 1Z, 1A, 1B, 2Z, 2A, 2B, 3Z, 3A, 3B, 4Z, 4A, 4B, 5Z, 5A, 5B, 6Z, 6A, 6B, 7Z, 7A, M1, 8Z, M2, M3, M4, 9Z, M5, M6, M7

Availability:

Operating Mode:Monitor, Generate, Duplex

Menu:PL

Typical Completion Time:100 ms

Name:DTMF Code

Tag:DTMF:DTMF Code

Commands:GET, SET

Data Type:STRING

Format:(DTMFCode)

char set:0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, #, *

Availability:

Menu:DTMF

Typical Completion Time:100 ms

Name:Tone Duration (ms)

Tag:DTMF:Duration

Commands:GET, SET

Data Type:INTEGER

Range: 40 to 9999

Availability:

Menu:DTMF

Typical Completion Time:100 ms

Name:Inter-digit Delay (ms)

Tag:DTMF:Delay

Commands:GET, SET

Data Type:INTEGER

Range: 20 to 9999

Availability:

Menu:DTMF

Typical Completion Time:100 ms

Name:Sequence

Tag:SEQUENCE:Sequence

Commands:GET, SET

Data Type:LIST

List Values: 1, 2, 3, 4

Availability:

Menu:SEQUENCE


Typical Completion Time:100 ms

Name:Sequence 3 Tone A Duration (sec)

Tag:SEQUENCE:S3 Tone A Duration

Commands:GET, SET

Data Type:FLOAT

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 50 OF 172	

Range: 0 to 9.99

Availability:

Menu:SEQUENCE

Typical Completion Time:100 ms

Name:Sequence 3 Tone A Delay (sec)

Tag:SEQUENCE:S3 Tone A Delay

Commands:GET, SET

Data Type:FLOAT

Range: 0 to 9.99

Availability:

Menu:SEQUENCE

Typical Completion Time:100 ms

Name:Sequence 3 Tone B Duration (sec)

Tag:SEQUENCE:S3 Tone B Duration

Commands:GET, SET

Data Type:FLOAT

Range: 0 to 9.99

Availability:

Menu:SEQUENCE

Typical Completion Time:100 ms

Name:Sequence 3 Tone B Delay (sec)

Tag:SEQUENCE:S3 Tone B Delay

Commands:GET, SET

Data Type:FLOAT

Range: 0 to 9.99

Availability:

Menu:SEQUENCE

Typical Completion Time:100 ms

Name:Sequence 4 Tone A Duration (sec)

Tag:SEQUENCE:S4 Tone A Duration

Commands:GET, SET

Data Type:FLOAT

Range: 0 to 9.99

Availability:

Menu:SEQUENCE

Typical Completion Time:100 ms

Name:Sequence 4 Tone A Delay (sec)

Tag:SEQUENCE:S4 Tone A Delay

Commands:GET, SET

Data Type:FLOAT

Range: 0 to 9.99

Availability:

Menu:SEQUENCE

Typical Completion Time:100 ms


Name:Sequence 4 Tone B Duration (sec)

Tag:SEQUENCE:S4 Tone B Duration

Commands:GET, SET

Data Type:FLOAT

Range: 0 to 9.99

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 51 OF 172	

Availability:

Menu:SEQUENCE

Typical Completion Time:100 ms

Name:Sequence 4 Tone B Delay (sec)

Tag:SEQUENCE:S4 Tone B Delay

Commands:GET, SET

Data Type:FLOAT

Range: 0 to 9.99

Availability:

Menu:SEQUENCE

Typical Completion Time:100 ms

Name:Tone A Frequency (Hz)

Tag:SEQUENCE:Tone A Frequency

Commands:GET, SET

Data Type:FLOAT

Range: 0 to 20000

Availability:

Menu:SEQUENCE

Typical Completion Time:100 ms

Name:Tone B Frequency (Hz)

Tag:SEQUENCE:Tone B Frequency

Commands:GET, SET

Data Type:FLOAT

Range: 0 to 20000

Availability:

Menu:SEQUENCE

Typical Completion Time:100 ms

Name:Code Sequence

Tag:GENSEQ:Code Sequence

Commands:GET, SET

Data Type:STRING

Format:(GENSEQCode)

char set:0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F, G, H, I, J

Availability:

Menu:GENSEQ

Typical Completion Time:100 ms

Name>Select Tone Standard

Tag:GENSEQ:Standard

Commands:GET, SET

Data Type:LIST

List Values: None, CCIR1, CCIR2, PCCIR, CCITT, EEA, EIA, Euro, NATEL, MODAT, ZVEI1, ZVEI2, ZVEI3, PZVEI, DZVEI, PDZVEI

Availability:

Menu:GENSEQ


Typical Completion Time:500 ms

Name:Synth Mode

Tag:GENSEQ:Synth Mode

Commands:GET, SET

Data Type:LIST

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 52 OF 172	

List Values: Off, Continuous, Burst [AUDIO:Format=A/B Sequence or AUDIO:Format=5/6 Tone or AUDIO:Format=POCSAG or AUDIO:Format=General Sequence], Disconnect Tone [AUDIO:Format=DPL or AUDIO:Format=DPL Invert]

Availability:

Operating Mode:Monitor, Generate, Duplex

Menu:GENSEQ

Typical Completion Time:500 ms

Name:Select Symbol to Edit

Tag:GENSEQ:Select Tone

Commands:GET, SET

Data Type:LIST

List Values: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F, G, H, I, J

Availability:

Menu:GENSEQ

Typical Completion Time:100 ms

Name:Tone Frequency (Hz)

Tag:GENSEQ>Edit Frequency

Commands:GET, SET

Data Type:FLOAT

Range: 0 to 19999.99

Availability:

Menu:GENSEQ

Typical Completion Time:100 ms

Name:Tone Duration (sec)

Tag:GENSEQ>Edit Duration

Commands:GET, SET

Data Type:FLOAT

Range: 0 to 0.5

Availability:

Menu:GENSEQ

Typical Completion Time:100 ms

Name:Post-Tone Delay (sec)

Tag:GENSEQ>Edit Delay

Commands:GET, SET

Data Type:FLOAT

Range: 0 to 1

Availability:

Menu:GENSEQ

Typical Completion Time:100 ms

Name:Save Sequence Definition

Tag:GENSEQ:Save

Commands:GET, SET

Data Type:STRING


char set:0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, , ., _, (,)

Availability:

Menu:GENSEQ

Typical Completion Time:2000 ms

Name:Load Sequence Definition

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 53 OF 172	

Tag:GENSEQ:Load
 Commands:GET, SET
 Data Type:LIST
 List Values:
 Availability:
 Menu:GENSEQ
 Typical Completion Time:2000 ms

Name:Sync to Code Entry
 Tag:GENSEQ:Sync Sequences
 Commands:GET, SET
 Data Type:BOOLEAN
 List Values: No, Yes
 Availability:
 Menu:GENSEQ
 Typical Completion Time:100 ms


Name:Duration Sequence
 Tag:GENSEQ:Dur Sequence
 Commands:GET, SET
 Data Type:STRING
 Format:(GENSEQCode)
 char set:0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F, G, H, I, J
 Availability:
 Menu:GENSEQ
 Typical Completion Time:100 ms

Name:Delay Sequence
 Tag:GENSEQ:Delay Sequence
 Commands:GET, SET
 Data Type:STRING
 Format:(GENSEQCode)
 char set:0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F, G, H, I, J
 Availability:
 Menu:GENSEQ
 Typical Completion Time:100 ms

Name:Spectrum Analyzer
 Tag:INSTRUMENTS:SPEC_AN
 Commands:GO
 Data Type:SUBMENU
 Availability:
 Menu:INSTRUMENTS
 Typical Completion Time:2000 ms

Name:Modulation Scope
 Tag:INSTRUMENTS:MOD_SCOPE
 Commands:GO
 Data Type:SUBMENU
 Availability:
 Menu:INSTRUMENTS
 Typical Completion Time:2000 ms

Name:Oscilloscope
 Tag:INSTRUMENTS:O_SCOPE

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 54 OF 172	

Commands:GO
 Data Type:SUBMENU
 Availability:
 Menu:INSTRUMENTS
 Typical Completion Time:2000 ms

Name:Dual Display
 Tag:INSTRUMENTS:DUAL_SCOPE
 Commands:GO
 Data Type:SUBMENU
 Availability:
 Option:R8-ESA
 Menu:INSTRUMENTS
 Typical Completion Time:2000 ms


Name:Tracking Generator
 Tag:INSTRUMENTS:TRACK_GEN
 Commands:GO
 Data Type:SUBMENU
 Availability:
 Option:R8-TG
 Menu:INSTRUMENTS
 Typical Completion Time:5000 ms

Name:Single Port VNA
 Tag:INSTRUMENTS:VNA
 Commands:GO
 Data Type:SUBMENU
 Availability:
 Menu:INSTRUMENTS
 Typical Completion Time:9000 ms

Name:Presets
 Tag:TEST:PRESETS
 Commands:GO
 Data Type:SUBMENU
 Typical Completion Time:2000 ms

Name:Test Mode
 Tag:TEST:Test Mode
 Commands:GET, SET
 Data Type:LIST
 List Values: Standard, DMR [Option=R8-DMR], PROJECT 25 [Option=R8-P25], P25 Trunk [Option=R8-P25TRNK], NXDN [Option=R8-NXDN], NXDN Trunk [Option=R8-NXDNTYPC], TETRA Base Station [Option=R8-TETRA_BSM], TETRA DMO [Option=R8-TETRA_DMO], TETRA TMO [Option=R8-TETRA_TMO], DPMP [Option=R8-DPMP], P25 II [Option=R8-P25_II], PTC-ITCR [Option=R8-PTC_ITCR], PTC-ACSES [Option=R8-PTC_ACSES], AVIONICS [Option=R8-AVIONICS]
 Typical Completion Time:5000 ms

Name:AutoTune
 Tag:TEST:AUTOTUNE
 Commands:GO
 Data Type:SUBMENU
 Typical Completion Time:2000 ms

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 55 OF 172	

Name:AutoScript
 Tag:TEST:AUTOSCRIPT
 Commands:GO
 Data Type:SUBMENU
 Typical Completion Time:2000 ms

Name:System Settings
 Tag:SETTINGS:SETUP
 Commands:GO
 Data Type:SUBMENU
 Availability:
 Menu:SETTINGS
 Typical Completion Time:2000 ms

Name:Battery Status
 Tag:SETTINGS:BATTERY
 Commands:GO
 Data Type:SUBMENU
 Availability:
 Menu:SETTINGS
 Typical Completion Time:2000 ms


Name:Acknowledge Message
 Tag:SETTINGS:ACK_MESSAGE
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Menu:SETTINGS
 Typical Completion Time:0 ms

Name>About
 Tag:SETTINGS:ABOUT
 Commands:GO
 Data Type:SUBMENU
 Availability:
 Menu:SETTINGS
 Typical Completion Time:2000 ms

Name:Options
 Tag:SETTINGS:OPTIONS
 Commands:GO
 Data Type:SUBMENU
 Availability:
 Menu:SETTINGS
 Typical Completion Time:2000 ms

Name:PLL Lock Status
 Tag:MONITOR:PLL Status
 Commands:GET
 Data Type:INTEGER
 Typical Completion Time:0 ms

Name:High Power Attenuator Temp
 Tag:MONITOR:HP Attenuator Temp

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 56 OF 172	

Commands:GET
 Data Type:FLOAT
 Range: 0 to 100
 Typical Completion Time:0 ms

Name:Receive Power Meter Temp
 Tag:MONITOR:RX Power Meter Temp
 Commands:GET
 Data Type:FLOAT
 Range: 0 to 100
 Typical Completion Time:0 ms

Name:Generate Power Meter Temp
 Tag:MONITOR:Gen Power Meter Temp
 Commands:GET
 Data Type:FLOAT
 Range: 0 to 100
 Typical Completion Time:0 ms


Name:Frequency Error (Hz)
 Tag:MONITOR:Frequency Error
 Commands:GET
 Data Type:FLOAT
 Typical Completion Time:0 ms

Name:Frequency Error (PPM)
 Tag:MONITOR:Frequency Error PPM
 Commands:GET
 Data Type:FLOAT
 Typical Completion Time:0 ms

Name:Input Level
 Tag:MONITOR:Input Level
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Monitor, Duplex
 Typical Completion Time:0 ms

Name:Input Level
 Tag:MONITOR:Input Lvl
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Monitor, Duplex
 Typical Completion Time:0 ms

Name:Deviation
 Tag:MONITOR:Deviation+
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Monitor, Duplex
 Typical Completion Time:0 ms

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 57 OF 172	

Name:Deviation
 Tag:MONITOR:Deviation-
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Monitor, Duplex
 Typical Completion Time:0 ms


Name:Center Frequency
 Tag:SPEC_AN:Monitor Frequency
 Commands:GET, SET
 Data Type:FLOAT
 Range: 250000 Hz to 1000000000 Hz
 Units: Hz, kHz, MHz, GHz
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:SPEC_AN
 Typical Completion Time:5000 ms

Name:Span
 Tag:SPEC_AN:Span
 Commands:GET, SET
 Data Type:FLOAT
 Range: 9751 Hz to 1000000000 Hz
 Units: Hz, kHz, MHz, GHz
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:SPEC_AN
 Typical Completion Time:5000 ms

Name:Start Frequency
 Tag:SPEC_AN:Start Frequency
 Commands:GET, SET
 Data Type:FLOAT
 Range: 250000 Hz to 1000000000 Hz
 Units: Hz, kHz, MHz, GHz
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:SPEC_AN
 Typical Completion Time:5000 ms

Name:Stop Frequency
 Tag:SPEC_AN:Stop Frequency
 Commands:GET, SET
 Data Type:FLOAT
 Range: 250000 Hz to 1000000000 Hz
 Units: Hz, kHz, MHz, GHz
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:SPEC_AN
 Typical Completion Time:5000 ms

Name:Resolution Bandwidth
 Tag:SPEC_AN:Resolution Bandwidth
 Commands:GET

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 58 OF 172	

Data Type:FLOAT

Availability:

Operating Mode:Monitor, Duplex

Menu:SPEC_AN

Typical Completion Time:0 ms

Name:Reference Level (dBm)

Tag:SPEC_AN:Reference Level

Commands:GET, SET

Data Type:INTEGER

Range: -120 to 90

Availability:

Operating Mode:Monitor, Duplex

Menu:SPEC_AN

Typical Completion Time:100 ms

Name:Vertical Scale

Tag:SPEC_AN:Vertical Scale

Commands:GET, SET

Data Type:LIST

List Values: 10 dB/div, 5 dB/div, 2 dB/div, 1 dB/div

Availability:

Operating Mode:Monitor, Duplex

Menu:SPEC_AN

Typical Completion Time:100 ms

Name:Display Mode

Tag:SPEC_AN:Display Mode

Commands:GET, SET

Data Type:LIST

List Values: Normal, Freeze, Max Hold, Average

Availability:

Operating Mode:Monitor, Duplex

Menu:SPEC_AN

Typical Completion Time:100 ms

Name:Trace Math

Tag:SPEC_AN:Trace Math

Commands:GET, SET

Data Type:LIST

List Values: None, Spec-Ref (log),

Spec-Ref

(lin), Spec+Ref (lin)

Availability:

Operating Mode:Monitor, Duplex

Menu:SPEC_AN

Typical Completion Time:100 ms

Name:Set Reference Trace

Tag:SPEC_AN:Set Reference Trace


Commands:DO

Data Type:FUNCTION

Availability:

Operating Mode:Monitor, Duplex

Menu:SPEC_AN

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 59 OF 172	

Typical Completion Time:100 ms

Name:Detector
 Tag:SPEC_AN:Detector
 Commands:GET, SET
 Data Type:LIST
 List Values: Power, Peak, Sample, Mean, Valley
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:SPEC_AN
 Typical Completion Time:200 ms


Name:Find Peak
 Tag:SPEC_AN:Find Peak
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:SPEC_AN
 Typical Completion Time:100 ms

Name:Center Peak
 Tag:SPEC_AN:Center Peak
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:SPEC_AN
 Typical Completion Time:5000 ms

Name:OBW
 Tag:SPEC_AN:OBW
 Commands:GET, SET
 Data Type:BOOLEAN
 List Values: Off, On
 Availability:
 Operating Mode:Monitor, Duplex
 Option:R8-ESA
 Menu:SPEC_AN
 Typical Completion Time:100 ms

Name:OBW %
 Tag:SPEC_AN:OBW %
 Commands:GET, SET
 Data Type:INTEGER
 Range: 70 to 99
 Availability:
 Operating Mode:Monitor, Duplex
 Option:R8-ESA
 Menu:SPEC_AN
 Typical Completion Time:100 ms

Name:CW Harmonics
 Tag:SPEC_AN:CW Harmonics
 Commands:GET, SET

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 60 OF 172	

Data Type:BOOLEAN
 List Values: Off, On
 Availability:
 Operating Mode:Monitor, Duplex
 Option:R8-ESA
 Menu:SPEC_AN
 Typical Completion Time:100 ms


Name:Measure Harmonics
 Tag:SPEC_AN:Harmonics Meas
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:Monitor, Duplex
 Option:R8-ESA
 Menu:SPEC_AN
 Typical Completion Time:100 ms

Name:Harmonics
 Tag:SPEC_AN:Harmonics
 Commands:GET
 Data Type:ARRAY
 Availability:
 Operating Mode:Monitor, Duplex
 Option:R8-ESA
 Menu:SPEC_AN
 Typical Completion Time:100 ms

Name:Harmonics Frequencies
 Tag:SPEC_AN:Harmonic Freqs
 Commands:GET
 Data Type:ARRAY
 Availability:
 Operating Mode:Monitor, Duplex
 Option:R8-ESA
 Menu:SPEC_AN
 Typical Completion Time:100 ms

Name:Select Instrument
 Tag:DUAL_SCOPE:Subzone
 Commands:GET, SET
 Data Type:LIST
 List Values: Spectrum Analyzer, Modulation Scope
 Availability:
 Menu:DUAL_SCOPE
 Typical Completion Time:100 ms

Name:Span
 Tag:DUAL_SCOPE:Span
 Commands:GET, SET
 Data Type:FLOAT
 Range: 9751 Hz to 1000000000 Hz
 Units: Hz, kHz, MHz, GHz
 Availability:
 Operating Mode:Monitor, Duplex

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 61 OF 172	

Menu:DUAL_SCOPE:Subzone=Spectrum Analyzer
 Typical Completion Time:5000 ms

Name:Start Frequency
 Tag:DUAL_SCOPE:Start Frequency
 Commands:GET, SET
 Data Type:FLOAT
 Range: 250000 Hz to 1000000000 Hz
 Units: Hz, kHz, MHz, GHz
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:DUAL_SCOPE:Subzone=Spectrum Analyzer
 Typical Completion Time:5000 ms


Name:Stop Frequency
 Tag:DUAL_SCOPE:Stop Frequency
 Commands:GET, SET
 Data Type:FLOAT
 Range: 250000 Hz to 1000000000 Hz
 Units: Hz, kHz, MHz, GHz
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:DUAL_SCOPE:Subzone=Spectrum Analyzer
 Typical Completion Time:5000 ms

Name:Resolution Bandwidth
 Tag:DUAL_SCOPE:Resolution Bandwidth
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:DUAL_SCOPE:Subzone=Spectrum Analyzer
 Typical Completion Time:0 ms

Name:Reference Level (dBm)
 Tag:DUAL_SCOPE:Reference Level
 Commands:GET, SET
 Data Type:INTEGER
 Range: -120 to 90
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:DUAL_SCOPE:Subzone=Spectrum Analyzer
 Typical Completion Time:100 ms

Name:Vertical Scale
 Tag:DUAL_SCOPE:Vertical Scale
 Commands:GET, SET
 Data Type:LIST
 List Values: 10 dB/div, 5 dB/div, 2 dB/div, 1 dB/div
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:DUAL_SCOPE:Subzone=Spectrum Analyzer
 Typical Completion Time:100 ms

Name:Display Mode

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 62 OF 172	

Tag:DUAL_SCOPE:Display Mode
 Commands:GET, SET
 Data Type:LIST
 List Values: Normal, Freeze, Max Hold, Average
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:DUAL_SCOPE:Subzone=Spectrum Analyzer
 Typical Completion Time:100 ms


Name:Trace Math
 Tag:DUAL_SCOPE:Trace Math
 Commands:GET, SET
 Data Type:LIST
 List Values: None, Spec-Ref (log),
 Spec-Ref
 (lin), Spec+Ref (lin)
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:DUAL_SCOPE:Subzone=Spectrum Analyzer
 Typical Completion Time:100 ms

Name:Set Reference Trace
 Tag:DUAL_SCOPE:Set Reference Trace
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:DUAL_SCOPE:Subzone=Spectrum Analyzer
 Typical Completion Time:100 ms

Name:Detector
 Tag:DUAL_SCOPE:Detector
 Commands:GET, SET
 Data Type:LIST
 List Values: Power, Peak, Sample, Mean, Valley
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:DUAL_SCOPE:Subzone=Spectrum Analyzer
 Typical Completion Time:200 ms

Name:Find Peak
 Tag:DUAL_SCOPE:Find Peak
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:DUAL_SCOPE:Subzone=Spectrum Analyzer
 Typical Completion Time:100 ms

Name:Center Peak
 Tag:DUAL_SCOPE:Center Peak
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:Monitor, Duplex

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 63 OF 172	

Menu:DUAL_SCOPE:Subzone=Spectrum Analyzer
 Typical Completion Time:5000 ms

Name:Vertical Scale
 Tag:DUAL_SCOPE:AM Vertical Scale
 Commands:GET, SET
 Data Type:LIST
 List Values: 1%, 2%, 5%, 10%, 20%, 50%
 Availability:

Menu:DUAL_SCOPE:Subzone=Modulation Scope
 Typical Completion Time:100 ms

Name:Vertical Scale
 Tag:DUAL_SCOPE:FM Vertical Scale
 Commands:GET, SET
 Data Type:LIST
 List Values: 100 Hz, 200 Hz, 500 Hz, 1 kHz, 2 kHz, 5 kHz, 10 kHz, 20 kHz, 50 kHz
 Availability:

Menu:DUAL_SCOPE:Subzone=Modulation Scope
 Typical Completion Time:100 ms

Name:Horizontal Scale
 Tag:DUAL_SCOPE:Horizontal Scale
 Commands:GET, SET
 Data Type:LIST
 List Values: 20 us, 50 us, 100 us, 200 us, 500 us, 1 ms, 2 ms, 5 ms, 10 ms, 20 ms, 50 ms, 100 ms, 200 ms, 500 ms, 1 s
 Availability:

Menu:DUAL_SCOPE:Subzone=Modulation Scope
 Typical Completion Time:100 ms


Name:Trigger Mode
 Tag:DUAL_SCOPE:Trigger
 Commands:GET, SET
 Data Type:LIST
 List Values: Auto, Normal, Single
 Availability:

Menu:DUAL_SCOPE:Subzone=Modulation Scope
 Typical Completion Time:100 ms

Name:Trigger Level
 Tag:DUAL_SCOPE:Trigger Level
 Commands:GET, SET
 Data Type:INTEGER
 Range: -200000 to 200000
 Availability:

Menu:DUAL_SCOPE:Subzone=Modulation Scope
 Typical Completion Time:100 ms

Name:Trigger Level (%)
 Tag:DUAL_SCOPE:AM Trigger Level
 Commands:GET, SET
 Data Type:INTEGER
 Range: 0 to 99

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 64 OF 172	

Availability:

Menu:DUAL_SCOPE:Subzone=Modulation Scope
 Typical Completion Time:100 ms

Name:Trigger Position
 Tag:DUAL_SCOPE:Trigger Position
 Commands:GET, SET
 Data Type:LIST
 List Values: 10%, 50%, 90%

Availability:
 Menu:DUAL_SCOPE:Subzone=Modulation Scope
 Typical Completion Time:0 ms

Name:Trigger Edge
 Tag:DUAL_SCOPE:Trigger Edge
 Commands:GET, SET
 Data Type:LIST
 List Values: Rising, Falling, Either

Availability:
 Menu:DUAL_SCOPE:Subzone=Modulation Scope
 Typical Completion Time:100 ms

Name:Scope Mode
 Tag:DUAL_SCOPE:Mod Scope Select
 Commands:GET, SET
 Data Type:BOOLEAN
 List Values: Monitor, Generate

Availability:
 Operating Mode:Duplex
 Menu:DUAL_SCOPE
 Typical Completion Time:100 ms


Name:Center Frequency
 Tag:TRACK_GEN:Generate Frequency
 Commands:GET, SET
 Data Type:FLOAT
 Range: 250000 Hz to 1000000000 Hz
 Units: Hz, kHz, MHz, GHz

Availability:
 Operating Mode:Track Gen
 Menu:TRACK_GEN
 Typical Completion Time:5000 ms

Name:Span
 Tag:TRACK_GEN:Span
 Commands:GET, SET
 Data Type:FLOAT
 Range: 1 Hz to 50000000 Hz
 Units: Hz, kHz, MHz, GHz

Availability:
 Operating Mode:Track Gen
 Menu:TRACK_GEN
 Typical Completion Time:5000 ms

Name:Start Frequency

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 65 OF 172	

Tag:TRACK_GEN:Start Frequency
 Commands:GET, SET
 Data Type:FLOAT
 Range: 250000 Hz to 3000000000 Hz
 Units: Hz, kHz, MHz, GHz
 Availability:
 Operating Mode:Track Gen
 Menu:TRACK_GEN
 Typical Completion Time:5000 ms


Name:Stop Frequency
 Tag:TRACK_GEN:Stop Frequency
 Commands:GET, SET
 Data Type:FLOAT
 Range: 259751 Hz to 3000000000 Hz
 Units: Hz, kHz, MHz, GHz
 Availability:
 Operating Mode:Track Gen
 Menu:TRACK_GEN
 Typical Completion Time:5000 ms

Name:Reference Level (dBm)
 Tag:TRACK_GEN:Reference Level
 Commands:GET, SET
 Data Type:INTEGER
 Range: -120 to 60
 Availability:
 Operating Mode:Track Gen
 Menu:TRACK_GEN
 Typical Completion Time:100 ms

Name:Vertical Scale
 Tag:TRACK_GEN:Vertical Scale
 Commands:GET, SET
 Data Type:LIST
 List Values: 15 dB/div, 10 dB/div, 5 dB/div, 2 dB/div, 1 dB/div
 Availability:
 Operating Mode:Track Gen
 Option:R8-ESA
 Menu:TRACK_GEN
 Typical Completion Time:100 ms

Name:# of Points
 Tag:TRACK_GEN:Number of Points
 Commands:GET, SET
 Data Type:INTEGER
 Range: 100 to 600
 Availability:
 Operating Mode:Track Gen
 Menu:TRACK_GEN
 Typical Completion Time:4000 ms

Name:RBW
 Tag:TRACK_GEN:RBW
 Commands:GET, SET

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 66 OF 172	

Data Type:LIST
 List Values: Wide, Medium, Narrow
 Availability:
 Operating Mode:Track Gen
 Menu:TRACK_GEN
 Typical Completion Time:4000 ms


Name:Display Mode
 Tag:TRACK_GEN:Display Mode
 Commands:GET, SET
 Data Type:LIST
 List Values: Normal, Freeze, Max Hold, Average
 Availability:
 Operating Mode:Track Gen
 Menu:TRACK_GEN
 Typical Completion Time:100 ms

Name:Marker Mode
 Tag:TRACK_GEN:SA Markers
 Commands:GET, SET
 Data Type:LIST
 List Values: Off, Absolute, Delta
 Availability:
 Operating Mode:Track Gen
 Menu:TRACK_GEN
 Typical Completion Time:100 ms

Name:Marker Type
 Tag:TRACK_GEN:Marker Type
 Commands:GET, SET
 Data Type:LIST
 List Values: Point Cross, Vertical Bar, Horizontal Bar, Full Cross
 Availability:
 Operating Mode:Track Gen
 Menu:TRACK_GEN
 Typical Completion Time:100 ms

Name:Toggle Marker
 Tag:TRACK_GEN:Toggle Marker
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:Track Gen
 Menu:TRACK_GEN
 Typical Completion Time:100 ms

Name>Select Marker
 Tag:TRACK_GEN>Select Marker
 Commands:GET, SET
 Data Type:LIST
 List Values: 1, 2, 3, 4
 Availability:
 Operating Mode:Track Gen
 Option:R8-ESA
 Menu:TRACK_GEN

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 67 OF 172	

Typical Completion Time:100 ms

Name:Set Marker Frequency
 Tag:TRACK_GEN:Marker Frequency
 Commands:GET, SET
 Data Type:FLOAT
 Range: 250000 Hz to 1000000000 Hz
 Units: Hz, kHz, MHz, GHz
 Availability:
 Operating Mode:Track Gen
 Menu:TRACK_GEN
 Typical Completion Time:100 ms


Name:Find Peak
 Tag:TRACK_GEN:Find Peak
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:Track Gen
 Menu:TRACK_GEN
 Typical Completion Time:100 ms

Name:Find Valley
 Tag:TRACK_GEN:Find Valley
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:Track Gen
 Menu:TRACK_GEN
 Typical Completion Time:100 ms

Name:Center Marker
 Tag:TRACK_GEN:Center Marker
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:Track Gen
 Menu:TRACK_GEN
 Typical Completion Time:5000 ms

Name:Output Level (dBm)
 Tag:TRACK_GEN:Output Level
 Commands:GET, SET
 Data Type:FLOAT
 Range: -130 to 5
 Availability:
 Operating Mode:Track Gen
 Menu:TRACK_GEN
 Typical Completion Time:500 ms

Name:Attenuation
 Tag:TRACK_GEN:Attenuation
 Commands:GET, SET
 Data Type:LIST

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 68 OF 172	

List Values: 0 dB, 2 dB, 4 dB, 6 dB, 8 dB, 10 dB, 12 dB, 14 dB, 16 dB, 18 dB, 20 dB, 22 dB, 24 dB, 26 dB, 28 dB, 30 dB, 32 dB, 34 dB, 36 dB, 38 dB, 40 dB, 42 dB, 44 dB, 46 dB, 48 dB, 50 dB, 52 dB, 54 dB, 56 dB, 58 dB, 60 dB, 62 dB

Availability:

Operating Mode:Track Gen

Menu:TRACK_GEN

Typical Completion Time:500 ms

Name:Pre-Amplifier

Tag:TRACK_GEN:PreAmp On

Commands:GET, SET

Data Type:BOOLEAN

List Values: Off, On

Availability:

Operating Mode:Track Gen

Menu:TRACK_GEN

Typical Completion Time:500 ms

Name:Gen Port

Tag:TRACK_GEN:Generate Port

Commands:GET, SET

Data Type:BOOLEAN

List Values: RF In/Out, Gen Out

Availability:

Operating Mode:Track Gen

Menu:TRACK_GEN

Typical Completion Time:500 ms

Name:Monitor Port

Tag:TRACK_GEN:Monitor Port

Commands:GET, SET

Data Type:BOOLEAN

List Values: RF In/Out, Antenna

Availability:

Operating Mode:Track Gen

Menu:TRACK_GEN

Typical Completion Time:500 ms

Name:Normalize

Tag:TRACK_GEN:Normalize

Commands:GET, SET

Data Type:BOOLEAN

List Values: Off, On

Availability:

Operating Mode:Track Gen

Menu:TRACK_GEN

Typical Completion Time:500 ms

Name:Update Trace

Tag:TRACK_GEN:Trace Request


Commands:

Data Type:BOOLEAN

List Values: F, T

Availability:

Operating Mode:Track Gen

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 69 OF 172	

Menu:TRACK_GEN
 Typical Completion Time:100 ms

Name:
 Tag:TRACK_GEN:Trace
 Commands:GET
 Data Type:ARRAY
 Availability:
 Operating Mode:Track Gen
 Menu:TRACK_GEN
 Typical Completion Time:100 ms


Name:Coupling
 Tag:O_SCOPE:Coupling
 Commands:GET, SET
 Data Type:BOOLEAN
 List Values: DC, AC
 Availability:
 Menu:O_SCOPE
 Typical Completion Time:500 ms

Name:Horizontal Scale
 Tag:O_SCOPE:Ext Horizontal Scale
 Commands:GET, SET
 Data Type:LIST
 List Values: 20 us (Max 50 kHz In), 50 us (Max 20 kHz In), 100 us (Max 10 kHz In), 200 us (Max 5 kHz In), 500 us (Max 2 kHz In), 1 ms (Max 1 kHz In), 2 ms (Max 500 Hz In), 5 ms (Max 200 Hz In), 10 ms (Max 100 Hz In), 20 ms (Max 50 Hz In), 50 ms (Max 20 Hz In), 100 ms (Max 10 Hz In), 200 ms (Max 5 Hz In), 500 ms (Max 2 Hz In), 1 s (Max 1 Hz In)
 Availability:
 Menu:O_SCOPE
 Typical Completion Time:500 ms

Name:Vertical Scale
 Tag:O_SCOPE:Ext Vertical Scale
 Commands:GET, SET
 Data Type:LIST
 List Values: 50 mV, 100 mV, 200 mV, 500 mV, 1 V, 2 V, 5 V, 10 V, 15 V, 20 V, 25 V
 Availability:
 Menu:O_SCOPE
 Typical Completion Time:500 ms

Name:Trigger Mode
 Tag:O_SCOPE:Ext Trigger
 Commands:GET, SET
 Data Type:LIST
 List Values: Auto, Normal, Single, Freeze
 Availability:
 Menu:O_SCOPE
 Typical Completion Time:500 ms

Name:Trigger Level
 Tag:O_SCOPE:Ext Trigger Level

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 70 OF 172	

Commands:GET, SET
 Data Type:FLOAT
 Range: -99.99 to 99.99
 Availability:
 Menu:O_SCOPE
 Typical Completion Time:500 ms

Name:Trigger Position
 Tag:O_SCOPE:Ext Trigger Position
 Commands:GET, SET
 Data Type:LIST
 List Values: 10%, 50%, 90%
 Availability:
 Menu:O_SCOPE
 Typical Completion Time:500 ms


Name:Trigger Edge
 Tag:O_SCOPE:Ext Trigger Edge
 Commands:GET, SET
 Data Type:LIST
 List Values: Rising, Falling, Either
 Availability:
 Menu:O_SCOPE
 Typical Completion Time:500 ms

Name:Vertical Scale
 Tag:MOD_SCOPE:AM Vertical Scale
 Commands:GET, SET
 Data Type:LIST
 List Values: 1%, 2%, 5%, 10%, 20%, 50%
 Availability:
 Menu:MOD_SCOPE
 Typical Completion Time:100 ms

Name:Vertical Scale
 Tag:MOD_SCOPE:FM Vertical Scale
 Commands:GET, SET
 Data Type:LIST
 List Values: 100 Hz, 200 Hz, 500 Hz, 1 kHz, 2 kHz, 5 kHz, 10 kHz, 20 kHz, 50 kHz
 Availability:
 Menu:MOD_SCOPE
 Typical Completion Time:100 ms

Name:Horizontal Scale
 Tag:MOD_SCOPE:Horizontal Scale
 Commands:GET, SET
 Data Type:LIST
 List Values: 20 us, 50 us, 100 us, 200 us, 500 us, 1 ms, 2 ms, 5 ms, 10 ms, 20 ms, 50 ms, 100 ms, 200 ms, 500 ms, 1 s
 Availability:
 Menu:MOD_SCOPE
 Typical Completion Time:100 ms

Name:Trigger Mode

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 71 OF 172	

Tag:MOD_SCOPE:Trigger
 Commands:GET, SET
 Data Type:LIST
 List Values: Auto, Normal, Single
 Availability:
 Menu:MOD_SCOPE
 Typical Completion Time:100 ms

Name:Trigger Level
 Tag:MOD_SCOPE:Trigger Level
 Commands:GET, SET
 Data Type:INTEGER
 Range: -200000 to 200000
 Availability:
 Menu:MOD_SCOPE
 Typical Completion Time:100 ms


Name:Trigger Level (%)
 Tag:MOD_SCOPE:AM Trigger Level
 Commands:GET, SET
 Data Type:INTEGER
 Range: 0 to 99
 Availability:
 Menu:MOD_SCOPE
 Typical Completion Time:100 ms

Name:Trigger Position
 Tag:MOD_SCOPE:Trigger Position
 Commands:GET, SET
 Data Type:LIST
 List Values: 10%, 50%, 90%
 Availability:
 Menu:MOD_SCOPE
 Typical Completion Time:0 ms

Name:Trigger Edge
 Tag:MOD_SCOPE:Trigger Edge
 Commands:GET, SET
 Data Type:LIST
 List Values: Rising, Falling, Either
 Availability:
 Menu:MOD_SCOPE
 Typical Completion Time:100 ms

Name:Scope Mode
 Tag:MOD_SCOPE:Mod Scope Select
 Commands:GET, SET
 Data Type:BOOLEAN
 List Values: Monitor, Generate
 Availability:
 Operating Mode:Duplex
 Menu:MOD_SCOPE
 Typical Completion Time:100 ms

Name:System Version

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 72 OF 172	

Tag:ABOUT:SystemVersion
 Commands:GET
 Data Type:STRING
 Availability:
 Menu:ABOUT
 Typical Completion Time:0 ms

Name:Application Version
 Tag:ABOUT:AppVersion
 Commands:GET
 Data Type:STRING
 Availability:
 Menu:ABOUT
 Typical Completion Time:0 ms


Name:R8000 Library Version
 Tag:ABOUT:DllVersion
 Commands:GET
 Data Type:STRING
 Availability:
 Menu:ABOUT
 Typical Completion Time:0 ms

Name:Signal Service Provider Version
 Tag:ABOUT:SSP_Version
 Commands:GET
 Data Type:STRING
 Availability:
 Menu:ABOUT
 Typical Completion Time:0 ms

Name:Audio Library Version
 Tag:ABOUT:AudioVersion
 Commands:GET
 Data Type:STRING
 Availability:
 Menu:ABOUT
 Typical Completion Time:0 ms

Name:Operating System Version
 Tag:ABOUT:OSVersion
 Commands:GET
 Data Type:STRING
 Availability:
 Menu:ABOUT
 Typical Completion Time:0 ms

Name:BIOS Version
 Tag:ABOUT:BIOSVersion
 Commands:GET
 Data Type:STRING
 Availability:
 Menu:ABOUT
 Typical Completion Time:0 ms

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 73 OF 172	

Name:Main Board Revision
 Tag:ABOUT:MainPCBA
 Commands:GET
 Data Type:STRING
 Availability:
 Menu:ABOUT
 Typical Completion Time:0 ms

Name:RF Board Revision
 Tag:ABOUT:RfPCBA
 Commands:GET
 Data Type:STRING
 Availability:
 Menu:ABOUT
 Typical Completion Time:0 ms


Name:Control FPGA Version
 Tag:ABOUT:ControlFPGA
 Commands:GET
 Data Type:STRING
 Availability:
 Menu:ABOUT
 Typical Completion Time:0 ms

Name:
 Tag:ABOUT:TxFPGA
 Commands:GET
 Data Type:STRING
 Availability:
 Menu:ABOUT
 Typical Completion Time:0 ms

Name:RX FPGA Version
 Tag:ABOUT:RxFPGA
 Commands:GET
 Data Type:STRING
 Availability:
 Menu:ABOUT
 Typical Completion Time:0 ms

Name:Comm FPGA Version
 Tag:ABOUT:PCIEFPGA
 Commands:GET
 Data Type:STRING
 Availability:
 Menu:ABOUT
 Typical Completion Time:0 ms

Name:XTX BC Version
 Tag:ABOUT:XTX_BC
 Commands:GET
 Data Type:STRING
 Availability:
 Menu:ABOUT
 Typical Completion Time:0 ms

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 74 OF 172	

Name:XTX Product Revision
 Tag:ABOUT:XTX_Product
 Commands:GET
 Data Type:STRING
 Availability:
 Menu:ABOUT
 Typical Completion Time:0 ms

Name:XTX Serial Number
 Tag:ABOUT:XTX_Serial
 Commands:GET
 Data Type:STRING
 Availability:
 Menu:ABOUT
 Typical Completion Time:0 ms


Name:Cable Sweep Table
 Tag:SETUP:CABLE_SWEEP
 Commands:GO
 Data Type:SUBMENU
 Availability:
 Menu:SETUP
 Typical Completion Time:2000 ms

Name:Input Decoding
 Tag:SETUP:Input Decoding
 Commands:GET, SET
 Data Type:BOOLEAN
 List Values: Internal, External
 Availability:
 Menu:SETUP
 Typical Completion Time:100 ms

Name:Input Impedance
 Tag:SETUP:Input Impedance
 Commands:GET, SET
 Data Type:LIST
 List Values: 8 [Option=R8-PERIPHERAL], 50 [Option=R8-PERIPHERAL], 150
 [Option=R8-PERIPHERAL], 300 [Option=R8-PERIPHERAL], 600, 1k [Option=R8-
 PERIPHERAL], 1M, Ext
 Availability:
 Menu:SETUP
 Typical Completion Time:100 ms

Name:Ext In Impedance (Ohm)
 Tag:SETUP:External Input Impedance
 Commands:GET, SET
 Data Type:INTEGER
 Range: 1 to 10000
 Availability:
 Menu:SETUP
 Typical Completion Time:100 ms

Name:Reference Clock Mode

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 75 OF 172	

Tag:SETUP:Ref Clock Mode
 Commands:GET, SET
 Data Type:BOOLEAN
 List Values: Output, Input
 Availability:
 Menu:SETUP
 Typical Completion Time:500 ms

Name:Analog Measurement Averaging
 Tag:SETUP:Analog Msr Averaging
 Commands:GET, SET
 Data Type:BOOLEAN
 List Values: Off, On
 Availability:
 Menu:SETUP
 Typical Completion Time:100 ms


Name:Analog Averaging Samples
 Tag:SETUP:Analog Msr Avg Samples
 Commands:GET, SET
 Data Type:INTEGER
 Range: 2 to 100
 Availability:
 Menu:SETUP
 Typical Completion Time:100 ms

Name:Digital Measurement Averaging
 Tag:SETUP:Digital Msr Averaging
 Commands:GET, SET
 Data Type:BOOLEAN
 List Values: Off, On
 Availability:
 Menu:SETUP
 Typical Completion Time:100 ms

Name:Digital Averaging Samples
 Tag:SETUP:Digital Msr Avg Samples
 Commands:GET, SET
 Data Type:INTEGER
 Range: 2 to 100
 Availability:
 Menu:SETUP
 Typical Completion Time:100 ms

Name:Automatic Attenuation
 Tag:SETUP:Auto Attn
 Commands:GET, SET
 Data Type:BOOLEAN
 List Values: Off, On
 Availability:
 Menu:SETUP
 Typical Completion Time:100 ms

Name:Auto Attn Minimum
 Tag:SETUP:Auto Attn Min

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 76 OF 172	

Commands:GET, SET
 Data Type:LIST
 List Values: 0 dB, 2 dB, 4 dB, 6 dB, 8 dB, 10 dB, 12 dB, 14 dB, 16 dB, 18 dB,
 20 dB, 22 dB, 24 dB, 26 dB, 28 dB, 30 dB, 32 dB, 34 dB
 Availability:
 Menu:SETUP
 Typical Completion Time:100 ms

Name:Auto Attn High Threshold
 Tag:SETUP:Auto Attn Thd Hi
 Commands:GET, SET
 Data Type:INTEGER
 Range: -19 to 0
 Availability:
 Menu:SETUP
 Typical Completion Time:100 ms


Name:Auto Attn Low Threshold
 Tag:SETUP:Auto Attn Thd Lo
 Commands:GET, SET
 Data Type:INTEGER
 Range: -21 to -40
 Availability:
 Menu:SETUP
 Typical Completion Time:100 ms

Name:Pre-Amplifier Auto Off
 Tag:SETUP:PreAmp Auto Off
 Commands:GET, SET
 Data Type:BOOLEAN
 List Values: Disabled, Enabled
 Availability:
 Menu:SETUP
 Typical Completion Time:100 ms

Name:RF Level Offset
 Tag:SETUP:RF Level Offset
 Commands:GET, SET
 Data Type:BOOLEAN
 List Values: Off, On
 Availability:
 Menu:SETUP
 Typical Completion Time:100 ms

Name:RF In/Out Offset (dB)
 Tag:SETUP:RF In/Out Offset
 Commands:GET, SET
 Data Type:FLOAT
 Range: -99 to 99
 Availability:
 Menu:SETUP
 Typical Completion Time:500 ms

Name:RF Gen Out Offset (dB)
 Tag:SETUP:RF Gen Out Offset

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 77 OF 172	

Commands:GET, SET
 Data Type:FLOAT
 Range: -99 to 99
 Availability:
 Menu:SETUP
 Typical Completion Time:500 ms

Name:Antenna Offset (dB)
 Tag:SETUP:Antenna Offset
 Commands:GET, SET
 Data Type:FLOAT
 Range: -99 to 99
 Availability:
 Menu:SETUP
 Typical Completion Time:500 ms

Name:Cable Sweep Enable
 Tag:SETUP:Cable Sweep State
 Commands:GET, SET
 Data Type:BOOLEAN
 List Values: Off, On
 Availability:
 Menu:SETUP
 Typical Completion Time:100 ms

Name:RF In/Out Cable Sweep
 Tag:SETUP:RF In/Out Files
 Commands:GET, SET
 Data Type:LIST
 List Values:
 Availability:
 Menu:SETUP
 Typical Completion Time:0 ms

Name:RF Gen Out Cable Sweep
 Tag:SETUP:RF Gen Out Files
 Commands:GET, SET
 Data Type:LIST
 List Values:
 Availability:
 Menu:SETUP
 Typical Completion Time:0 ms

Name:Antenna Cable Sweep
 Tag:SETUP:Antenna Files
 Commands:GET, SET
 Data Type:LIST
 List Values:
 Availability:
 Menu:SETUP
 Typical Completion Time:0 ms

Name:Mod Out Range
 Tag:SETUP:Mod Out Range
 Commands:GET, SET

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 78 OF 172	

Data Type:LIST

List Values: High, Low [ABOUT:RfPCBA not like ^[0-9]\$]

Availability:

Menu:SETUP

Typical Completion Time:100 ms

Name:Mod Out DC Offset (mV)

Tag:SETUP:ModOutDC_Offset

Commands:GET, SET

Data Type:FLOAT

Range: -300 to 300

Availability:

Menu:SETUP

Typical Completion Time:500 ms

Name:Pre/De-emphasis

Tag:SETUP:Emphasis

Commands:GET, SET

Data Type:BOOLEAN

List Values: Off, On

Availability:

Menu:SETUP

Typical Completion Time:100 ms

Name:Meter In Filter

Tag:SETUP:Meter In Filter

Commands:GET, SET

Data Type:LIST

List Values: None, C-Msg, CCITT, De-emphasis

Availability:

Menu:SETUP

Typical Completion Time:100 ms

Name:Internal Audio Weighting

Tag:SETUP:Internal Audio Weight

Commands:GET, SET

Data Type:LIST

List Values: None, C-Msg, CCITT

Availability:

Menu:SETUP

Typical Completion Time:100 ms

Name:Language

Tag:SETUP:Language Select

Commands:GET, SET

Data Type:LIST

List Values: English, Spanish, Chinese Simplified, Chinese Traditional

Availability:

Menu:SETUP


Typical Completion Time:6000 ms

Name:Date

Tag:SETUP:NewDate

Commands:GET, SET

Data Type:STRING

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 79 OF 172	

Format:(MM.DD.YYYY)
char set:0, 1, 2, 3, 4, 5, 6, 7, 8, 9, .

Availability:
Menu:SETUP
Typical Completion Time:100 ms

Name:Time
Tag:SETUP:NewTime
Commands:GET, SET
Data Type:STRING
Format:(HH:MM)
char set:0, 1, 2, 3, 4, 5, 6, 7, 8, 9, :
Availability:
Menu:SETUP
Typical Completion Time:100 ms


Name:Apply Date/Time Changes
Tag:SETUP:ApplyDateTime
Commands:DO
Data Type:FUNCTION
Availability:
Menu:SETUP
Typical Completion Time:100 ms

Name:R8000 Legacy Mode
Tag:SETUP:Legacy
Commands:GET, SET
Data Type:LIST
List Values: Standard R8100, Legacy R8000
Availability:
Menu:SETUP
Typical Completion Time:500 ms

Name:Reset to Defaults
Tag:SETUP:DefaultSetups
Commands:DO
Data Type:FUNCTION
Availability:
Menu:SETUP
Typical Completion Time:100 ms

Name:
Tag:BATTERY:SerialNumber
Commands:GET
Data Type:INTEGER
Availability:
Menu:BATTERY
Typical Completion Time:0 ms

Name:
Tag:BATTERY:TimeToEmpty
Commands:GET
Data Type:FLOAT
Availability:
Menu:BATTERY

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 80 OF 172	

Typical Completion Time:0 ms

Name:

Tag:BATTERY:TimeToFull

Commands:GET

Data Type:FLOAT

Availability:

Menu:BATTERY

Typical Completion Time:0 ms

Name:

Tag:BATTERY:Temperature

Commands:GET

Data Type:FLOAT

Availability:

Menu:BATTERY

Typical Completion Time:0 ms

Name:

Tag:BATTERY:CycleCount

Commands:GET

Data Type:INTEGER

Availability:

Menu:BATTERY

Typical Completion Time:0 ms

Name:

Tag:BATTERY:Charge

Commands:GET

Data Type:FLOAT

Availability:

Menu:BATTERY

Typical Completion Time:0 ms

Name:

Tag:BATTERY:Charging

Commands:GET

Data Type:BOOLEAN

List Values:

Availability:

Menu:BATTERY

Typical Completion Time:0 ms

Name:Save Configuration As

Tag:PRESETS:New

Commands:GET, SET

Data Type:STRING

char set:0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, , ., _, (,)


Availability:

Menu:PRESETS

Typical Completion Time:2000 ms

Name:Load Factory Configuration

Tag:PRESETS:Load Defaults

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 81 OF 172	

Commands:DO
 Data Type:FUNCTION
 Availability:
 Menu:PRESETS
 Typical Completion Time:30000 ms

Name:Operator ID
 Tag:AUTOTUNE:Operator ID
 Commands:GET, SET
 Data Type:STRING
 Format:(size[%-1.16s])
 char set:0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F, G, H, I, J, K, L, M,
 N, O, P, Q, R, S, T, U, V, W, X, Y, Z, , ., _, (,), -
 Availability:
 Menu:AUTOTUNE:Subzone=AutoTune
 Typical Completion Time:0 ms


Name:Radio Make & Model
 Tag:AUTOTUNE:Radio
 Commands:GET, SET
 Data Type:LIST
 List Values: No Selection
 Availability:
 Menu:AUTOTUNE:Subzone=AutoTune
 Typical Completion Time:5000 ms

Name:
 Tag:AUTOTUNE:Radios
 Commands:GET
 Data Type:ARRAY
 Availability:
 Menu:AUTOTUNE:Subzone=AutoTune
 Typical Completion Time:0 ms

Name:Activity
 Tag:AUTOTUNE:Activity
 Commands:GET, SET
 Data Type:BOOLEAN
 List Values: Test Only, Test and Align
 Availability:
 Menu:AUTOTUNE:Subzone=AutoTune
 Typical Completion Time:0 ms

Name:Toggle Test Selection
 Tag:AUTOTUNE:Toggle Test
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Menu:AUTOTUNE:Subzone=AutoTune
 Typical Completion Time:0 ms

Name:Start
 Tag:AUTOTUNE:Start
 Commands:DO
 Data Type:FUNCTION

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 82 OF 172	

Availability:

Menu:AUTOTUNE:Subzone=AutoTune

Typical Completion Time:5000 ms

Name:Abort

Tag:AUTOTUNE:Abort

Commands:DO

Data Type:FUNCTION

Availability:

Menu:AUTOTUNE:Subzone=AutoTune

Typical Completion Time:0 ms

Name:Select Optimal

Tag:AUTOTUNE:Select Recommended

Commands:DO

Data Type:FUNCTION

Availability:

Menu:AUTOTUNE:Subzone=AutoTune

Typical Completion Time:0 ms

Name:Serial or USB Cable

Tag:AUTOTUNE:Cable

Commands:GET, SET

Data Type:BOOLEAN

List Values: Serial Cable, USB Cable

Availability:

Menu:AUTOTUNE:Subzone=AutoTune

Typical Completion Time:0 ms

Name:

Tag:AUTOTUNE:State

Commands:

Data Type:LIST

List Values: Idle, Init, Run_Phase1, Run_Phase2, Run_Phase3, Post_Test, Stopping, Done

Availability:

Menu:AUTOTUNE

Typical Completion Time:0 ms

Name:Clear All

Tag:AUTOTUNE:Clear All

Commands:DO

Data Type:FUNCTION

Availability:

Menu:AUTOTUNE:Subzone=AutoTune

Typical Completion Time:0 ms

Name:Tools

Tag:AUTOTUNE:Subzone

Commands:GET, SET


Data Type:LIST

List Values: Test Limits, Test Report, Preferences

Availability:

Menu:AUTOTUNE:Subzone=AutoTune

Typical Completion Time:1500 ms

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 83 OF 172	

Name:Select Test Log to Open
 Tag:AUTOTUNE:Open File
 Commands:GET, SET
 Data Type:LIST
 List Values:
 Availability:
 Menu:AUTOTUNE:Subzone=Test Report
 Typical Completion Time:0 ms

Name>Delete Test Log
 Tag:AUTOTUNE>Delete File
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Menu:AUTOTUNE:Subzone=Test Report
 Typical Completion Time:0 ms


Name>Delete All Test Logs
 Tag:AUTOTUNE>Delete All Files
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Menu:AUTOTUNE:Subzone=Test Report
 Typical Completion Time:0 ms

Name:
 Tag:AUTOTUNE>Select Test Log
 Commands:GET, SET
 Data Type:INTEGER
 Range: 0 to 99999
 Availability:
 Menu:AUTOTUNE
 Typical Completion Time:1500 ms

Name:Autotune Test Log
 Tag:AUTOTUNE:Test Log
 Commands:
 Data Type:ARRAY
 Availability:
 Menu:AUTOTUNE
 Typical Completion Time:1500 ms

Name:
 Tag:AUTOTUNE:Test Logs
 Commands:GET
 Data Type:ARRAY
 Availability:
 Menu:AUTOTUNE
 Typical Completion Time:100 ms

Name:Progress Level
 Tag:AUTOTUNE:Test Progress Level
 Commands:
 Data Type:INTEGER

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 84 OF 172	

Range: 0 to 99999

Availability:

Menu:AUTOTUNE

Typical Completion Time:0 ms

Name:Require Operator ID

Tag:AUTOTUNE:Operator Required

Commands:GET, SET

Data Type:BOOLEAN

List Values: No, Yes

Availability:

Menu:AUTOTUNE:Subzone=Preferences

Typical Completion Time:250 ms

Name:Display Report

Tag:AUTOTUNE:Show Report

Commands:GET, SET

Data Type:BOOLEAN

List Values: No, Yes

Availability:

Menu:AUTOTUNE:Subzone=Preferences

Typical Completion Time:250 ms

Name:Display Setup Diagrams

Tag:AUTOTUNE:Setup Diagrams

Commands:GET, SET

Data Type:BOOLEAN

List Values: No, Yes

Availability:

Menu:AUTOTUNE:Subzone=Preferences

Typical Completion Time:250 ms

Name:RF Level Offset

Tag:AUTOTUNE:RF Level Offset

Commands:GET, SET

Data Type:BOOLEAN

List Values: Off, On

Availability:

Menu:AUTOTUNE:Subzone=Preferences

Typical Completion Time:100 ms

Name:RF In/Out Offset (dB)

Tag:AUTOTUNE:RF In/Out Offset

Commands:GET, SET

Data Type:FLOAT

Range: -99 to 99

Availability:

Menu:AUTOTUNE:Subzone=Preferences

Typical Completion Time:500 ms


Name:Cable Sweep Enable

Tag:AUTOTUNE:Cable Sweep State

Commands:GET, SET

Data Type:BOOLEAN

List Values: Off, On

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 85 OF 172	

Availability:

Menu:AUTOTUNE:Subzone=Preferences

Typical Completion Time:100 ms

Name:Cable Sweep File

Tag:AUTOTUNE:Cable Sweep Files

Commands:GET, SET

Data Type:LIST

List Values:

Availability:

Menu:AUTOTUNE:Subzone=Preferences

Typical Completion Time:0 ms

Name:RF In/Out Cable Sweep

Tag:AUTOTUNE:RF In/Out Files

Commands:GET, SET

Data Type:LIST

List Values:

Availability:

Menu:AUTOTUNE:Subzone=Preferences

Typical Completion Time:0 ms

Name:RF Gen Out Cable Sweep

Tag:AUTOTUNE:RF Gen Out Files

Commands:GET, SET

Data Type:LIST

List Values:

Availability:

Menu:AUTOTUNE:Subzone=Preferences

Typical Completion Time:0 ms

Name:Return

Tag:AUTOTUNE:Return

Commands:DO

Data Type:FUNCTION

Availability:

Menu:AUTOTUNE:Subzone=Popups, Test Limits, Test Report, Preferences,

MessageLog

Typical Completion Time:1000 ms

Name:

Tag:AUTOTUNE:Test Size

Commands:

Data Type:INTEGER

Availability:

Menu:AUTOTUNE

Typical Completion Time:0 ms

Name:Voice Loopback


Tag:DMR:Voice Loopback

Commands:GET

Data Type:LIST

List Values: Off, Record [Operating Mode=Monitor], Play [Operating Mode=Generate], Record & Play

Availability:

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 86 OF 172	

Operating Mode:Monitor, Generate, Duplex
 Menu:DMR
 Typical Completion Time:0 ms

Name:DMR Mon Sync Status
 Tag:DMR:Sync
 Commands:GET
 Data Type:BOOLEAN
 List Values:
 Availability:

Operating Mode:Monitor, Duplex
 Menu:DMR
 Typical Completion Time:0 ms

Name:Mon Sync Pattern
 Tag:DMR:SYNC Pattern
 Commands:GET, SET
 Data Type:LIST

List Values: BS Sourced Voice [DMR:UUT_Cfg=Repeater Live or DMR:UUT_Cfg=BS Test], BS Sourced Data [DMR:UUT_Cfg=Repeater Live or DMR:UUT_Cfg=BS Test], MS Sourced Voice [DMR:UUT_Cfg=MS Test], MS Sourced Data [DMR:UUT_Cfg=MS Test], TDMA slot 1 Voice [DMR:UUT_Cfg=MS Test], TDMA slot 1 Data [DMR:UUT_Cfg=MS Test], TDMA slot 2 Voice [DMR:UUT_Cfg=MS Test], TDMA slot 2 Data [DMR:UUT_Cfg=MS Test]

Availability:
 Operating Mode:Monitor, Duplex
 Menu:DMR
 Typical Completion Time:100 ms

Name:
 Tag:DMR:SYNC Count
 Commands:GET
 Data Type:INTEGER
 Availability:


Operating Mode:Monitor, Duplex
 Menu:DMR
 Typical Completion Time:0 ms

Name:Source ID
 Tag:DMR:Source ID
 Commands:GET
 Data Type:INTEGER
 Availability:

Operating Mode:Monitor, Duplex
 Menu:DMR
 Typical Completion Time:0 ms

Name:Color Code
 Tag:DMR:Monitor CC
 Commands:GET
 Data Type:STRING
 Availability:

Operating Mode:Monitor, Duplex
 Menu:DMR
 Typical Completion Time:0 ms

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 87 OF 172	

Name:Copy CC to Generator
 Tag:DMR:Copy CC to Generator
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:DMR
 Typical Completion Time:100 ms


Name:Color Code
 Tag:DMR:Color Code
 Commands:GET, SET
 Data Type:INTEGER
 Range: 0 to 15
 Availability:
 Operating Mode:Generate, Duplex
 Menu:DMR
 Typical Completion Time:100 ms

Name:Burst
 Tag:DMR:Burst
 Commands:GET, SET
 Data Type:LIST
 List Values: A, B, C, D, E, F
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:DMR
 Typical Completion Time:100 ms

Name:BER Test
 Tag:DMR:BER Test
 Commands:GET, SET
 Data Type:LIST
 List Values: Stop, Start
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:DMR
 Typical Completion Time:500 ms

Name:Modulation Mode
 Tag:DMR:Gen Mod Mode
 Commands:GET, SET
 Data Type:LIST
 List Values: Off, Continuous
 Availability:
 Operating Mode:Generate, Duplex
 Menu:DMR
 Typical Completion Time:500 ms

Name:Test Pattern
 Tag:DMR:Test Pattern
 Commands:GET, SET
 Data Type:LIST

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 88 OF 172	

List Values: 1031 Hz Tone, Calibration (0.153 1%) [Operating Mode=Generate or Operating Mode=Duplex], 0.153, Silence [Operating Mode=Generate or Operating Mode=Duplex], PN9 [Operating Mode=Generate or Operating Mode=Duplex], BS Busy [Operating Mode=Generate or Operating Mode=Duplex], BS Idle [Operating Mode=Generate or Operating Mode=Duplex]

Availability:

Operating Mode:Generate, Duplex

Menu:DMR

Typical Completion Time:100 ms

Name:Symbol Deviation (Hz)

Tag:DMR:Symbol Deviation

Commands:GET

Data Type:FLOAT

Availability:

Operating Mode:Monitor, Duplex

Menu:DMR

Typical Completion Time:0 ms

Name:

Tag:DMR:FSK Error

Commands:GET

Data Type:FLOAT

Range: 0 to 100

Availability:

Operating Mode:Monitor, Duplex

Menu:DMR

Typical Completion Time:0 ms

Name:

Tag:DMR:Magnitude Error

Commands:GET

Data Type:FLOAT

Range: 0 to 100

Availability:

Operating Mode:Monitor, Duplex

Menu:DMR

Typical Completion Time:0 ms

Name:Symbol Rate Error (mHz)

Tag:DMR:Sym Rate Err

Commands:GET

Data Type:FLOAT

Availability:

Operating Mode:Monitor, Duplex

Menu:DMR

Typical Completion Time:0 ms

Name:

Tag:DMR:BER Result


Commands:GET

Data Type:FLOAT

Range: 0 to 100

Availability:

Operating Mode:Monitor, Duplex

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 89 OF 172	

Menu:DMR
 Typical Completion Time:0 ms

Name:DMR Library Version
 Tag:DMR:Version
 Commands:GET
 Data Type:STRING
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:DMR
 Typical Completion Time:0 ms


Name:UUT Configuration
 Tag:DMR:UUT_Cfg
 Commands:GET, SET
 Data Type:LIST
 List Values: MS Test, BS Test, Repeater Live [Option=R8-DMR_RPTR]
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:DMR
 Typical Completion Time:100 ms

Name:Eye Diagram Data
 Tag:DMR:Eye Data
 Commands:GET
 Data Type:ARRAY
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:DMR
 Typical Completion Time:100 ms

Name:
 Tag:P25:BER Result
 Commands:GET
 Data Type:FLOAT
 Range: 0 to 100
 Availability:
 Menu:P25
 Typical Completion Time:0 ms

Name:Symbol Deviation (Hz)
 Tag:P25:Symbol Deviation
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:P25
 Typical Completion Time:0 ms

Name:Symbol Rate Error (mHz)
 Tag:P25:Symbol Rate Error
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Monitor, Duplex

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 90 OF 172	

Menu:P25
 Typical Completion Time:0 ms


Name:
 Tag:P25:EVM
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:P25
 Typical Completion Time:0 ms

Name:
 Tag:P25:Modulation Fidelity
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:P25
 Typical Completion Time:0 ms

Name:Mon Test Pattern
 Tag:P25:Mon Test Pattern
 Commands:GET, SET
 Data Type:LIST
 List Values: 1011 Hz Tone, Calibration (Tone 5%), Standard Tx (0.153/V.52),
 Silence, Modified 1011 Hz
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:P25
 Typical Completion Time:100 ms

Name:Gen Test Pattern
 Tag:P25:Gen Test Pattern
 Commands:GET, SET
 Data Type:LIST
 List Values: 1011 Hz Tone, Calibration (Tone 5%), Standard Tx (0.153/V.52),
 Silence, Symbol Rate [Operating Mode=Generate], Low Deviation [Operating
 Mode=Generate], C4FM Mod Fidelity [Operating Mode=Generate]
 Availability:
 Operating Mode:Generate, Duplex
 Menu:P25
 Typical Completion Time:100 ms

Name:Generate Modulation Type
 Tag:P25:Modulation Type
 Commands:GET, SET
 Data Type:LIST
 List Values: FM [Test Mode=Standard], AM [Test Mode=Standard], USB [Test
 Mode=Standard and Option=R8-SSB], LSB [Test Mode=Standard and Option=R8-SSB],
 4FSK [Test Mode=DMR or Test Mode=DPMR or Test Mode=NXDN or Test Mode=NXDN
 Trunk], GMSK~ [Test Mode=PTC-ACSES], C4FM [Test Mode=PROJECT 25 or Test
 Mode=P25 Trunk], LSM [Test Mode=PROJECT 25 or Test Mode=P25 Trunk], WCQPSK
 [Test Mode=PROJECT 25 or Test Mode=P25 Trunk], PI/4 DQPSK [Test Mode=PTC-ITCR
 or Test Mode=TETRA DMO or Test Mode=TETRA TMO or Test Mode=TETRA Base

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 91 OF 172	

Station], HCPM [Test Mode=P25 II], HDQPSK [Test Mode=P25 II and Operating Mode=Monitor or Test Mode=P25 II and Operating Mode=Generate]

Availability:

Operating Mode:Generate, Duplex
Menu:P25

Typical Completion Time:100 ms

Name:Modulation Mode

Tag:P25:Gen Mod Mode

Commands:GET, SET

Data Type:LIST

List Values: Off, Continuous, Burst

Availability:

Operating Mode:Generate, Duplex
Menu:P25

Typical Completion Time:500 ms

Name:NAC (Hex)

Tag:P25:NAC

Commands:GET, SET

Data Type:STRING

Format:0x000

Availability:

Operating Mode:Generate, Duplex
Menu:P25

Typical Completion Time:100 ms

Name:Monitor Modulation Type

Tag:P25:Mon Mod Type

Commands:GET, SET

Data Type:LIST

List Values: C4FM, LSM, WCQPSK

Availability:

Operating Mode:Monitor, Duplex
Menu:P25

Typical Completion Time:100 ms

Name:Monitor NAC

Tag:P25:Monitor NAC

Commands:

Data Type:STRING

Format:0x000

Availability:

Operating Mode:Monitor, Duplex
Menu:P25

Typical Completion Time:100 ms

Name:Reset Symbol Rate Error

Tag:P25:Reset SRE


Commands:DO

Data Type:FUNCTION

Availability:

Operating Mode:Monitor, Duplex
Menu:P25

Typical Completion Time:100 ms

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 92 OF 172	

Name:BER Test
 Tag:P25:BER Test
 Commands:GET, SET
 Data Type:LIST
 List Values: Stop, Start
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:P25
 Typical Completion Time:500 ms


Name:Eye Diagram Data
 Tag:P25:Eye Data
 Commands:GET
 Data Type:ARRAY
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:P25
 Typical Completion Time:100 ms

Name:Voice Frame Encoder
 Tag:P25:P25_VFENCODE Table
 Commands:GO
 Data Type:SUBMENU
 Availability:
 Operating Mode:Generate, Duplex
 Menu:P25
 Typical Completion Time:2000 ms

Name:Voice Frame Data
 Tag:P25:Voice Frames
 Commands:GET
 Data Type:ARRAY
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:P25
 Typical Completion Time:100 ms

Name:Copy NAC to Generator
 Tag:P25:Copy NAC to Generator
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:P25
 Typical Completion Time:100 ms

Name:Project 25 Library Version
 Tag:P25:Version
 Commands:GET
 Data Type:STRING
 Availability:
 Menu:P25
 Typical Completion Time:0 ms

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 93 OF 172	

Name:NAC (Hex)
 Tag:P25_VFENCODE:NAC
 Commands:GET, SET
 Data Type:STRING
 Format:0x000
 Availability:
 Operating Mode:Generate, Duplex
 Menu:P25_VFENCODE
 Typical Completion Time:100 ms


Name:Key ID (Hex)
 Tag:P25_VFENCODE:KID
 Commands:GET, SET
 Data Type:STRING
 Format:0x0000
 Availability:
 Operating Mode:Generate, Duplex
 Menu:P25_VFENCODE
 Typical Completion Time:100 ms

Name:Algorithm ID (Hex)
 Tag:P25_VFENCODE:ALGID
 Commands:GET, SET
 Data Type:STRING
 Format:0x00
 Availability:
 Operating Mode:Generate, Duplex
 Menu:P25_VFENCODE
 Typical Completion Time:100 ms

Name:Status Symbols
 Tag:P25_VFENCODE:SS
 Commands:GET, SET
 Data Type:LIST
 List Values: 0 - Unknown Talkaround, 1 - Busy, 2 - Unknown In/Out, 3 - Idle
 Availability:
 Operating Mode:Generate, Duplex
 Menu:P25_VFENCODE
 Typical Completion Time:100 ms

Name:Low Speed Data (Hex)
 Tag:P25_VFENCODE:LSD
 Commands:GET, SET
 Data Type:STRING
 Format:0x00000000
 Availability:
 Operating Mode:Generate, Duplex
 Menu:P25_VFENCODE
 Typical Completion Time:100 ms

Name:Talk Group ID (Hex)
 Tag:P25_VFENCODE:Group Address
 Commands:GET, SET
 Data Type:STRING
 Format:0x0000

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 94 OF 172	

Availability:

Operating Mode:Generate, Duplex
 Menu:P25_VFENCODE

Typical Completion Time:100 ms

Name:MFID (Hex)

Tag:P25_VFENCODE:MFID

Commands:GET, SET

Data Type:STRING

Format:0x00

Availability:

Operating Mode:Generate, Duplex
 Menu:P25_VFENCODE

Typical Completion Time:100 ms

Name:Raw (Hex)

Tag:P25_VFENCODE:Raw

Commands:GET, SET

Data Type:STRING

Format:0x00000000000000000000

Availability:

Operating Mode:Generate, Duplex
 Menu:P25_VFENCODE:Subzone=Raw

Typical Completion Time:100 ms

Name:Link Control Opcode

Tag:P25_VFENCODE:Subzone

Commands:GET, SET

Data Type:LIST

List Values: Raw, 0 - LC_GRP_V_CH_USR, 3 - LC_U2U_V_CH_USR

Availability:

Operating Mode:Generate, Duplex
 Menu:P25_VFENCODE

Typical Completion Time:100 ms

Name:SF - MFID Format

Tag:P25_VFENCODE:SF

Commands:GET, SET

Data Type:LIST

List Values: 0 - Explicit Format, 1 - Standard MFID

Availability:

Operating Mode:Generate, Duplex
 Menu:P25_VFENCODE:Subzone=0 - LC_GRP_V_CH_USR, 3 - LC_U2U_V_CH_USR

Typical Completion Time:100 ms

Name:Service Options (Hex)

Tag:P25_VFENCODE:Service Options

Commands:GET, SET


Data Type:STRING

Format:0x00

Availability:

Operating Mode:Generate, Duplex
 Menu:P25_VFENCODE:Subzone=0 - LC_GRP_V_CH_USR, 3 - LC_U2U_V_CH_USR

Typical Completion Time:100 ms

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 95 OF 172	

Name:S - Explicit Source ID
 Tag:P25_VFENCODE:S
 Commands:GET, SET
 Data Type:LIST
 List Values: 0 - Not Required, 1 - Required
 Availability:
 Operating Mode:Generate, Duplex
 Menu:P25_VFENCODE:Subzone=0 - LC_GRP_V_CH_USR
 Typical Completion Time:100 ms


Name:Target Address (Hex)
 Tag:P25_VFENCODE:Target Address
 Commands:GET, SET
 Data Type:STRING
 Format:0x000000
 Availability:
 Operating Mode:Generate, Duplex
 Menu:P25_VFENCODE:Subzone=3 - LC_U2U_V_CH_USR
 Typical Completion Time:100 ms

Name:Source Address (Hex)
 Tag:P25_VFENCODE:Source Address
 Commands:GET, SET
 Data Type:STRING
 Format:0x000000
 Availability:
 Operating Mode:Generate, Duplex
 Menu:P25_VFENCODE:Subzone=0 - LC_GRP_V_CH_USR, 3 - LC_U2U_V_CH_USR
 Typical Completion Time:100 ms

Name:Reset to Defaults
 Tag:P25_VFENCODE:Reset
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:Generate, Duplex
 Menu:P25_VFENCODE
 Typical Completion Time:200 ms

Name:Subzone
 Tag:P25_TRUNK:Subzone
 Commands:GET, SET
 Data Type:LIST
 List Values: Alert/Dispatch, BER
 Availability:
 Operating Mode:Duplex
 Menu:P25_TRUNK
 Typical Completion Time:100 ms

Name:Generate Modulation Type
 Tag:P25_TRUNK:Modulation Type
 Commands:GET, SET
 Data Type:LIST
 List Values: FM [Test Mode=Standard], AM [Test Mode=Standard], USB [Test Mode=Standard and Option=R8-SSB], LSB [Test Mode=Standard and Option=R8-SSB],

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 96 OF 172	

4FSK [Test Mode=DMR or Test Mode=DPMR or Test Mode=NXDN or Test Mode=NXDN Trunk], GMSK~ [Test Mode=PTC-ACSES], C4FM [Test Mode=PROJECT 25 or Test Mode=P25 Trunk], LSM [Test Mode=PROJECT 25 or Test Mode=P25 Trunk], WCQPSK [Test Mode=PROJECT 25 or Test Mode=P25 Trunk], PI/4 DQPSK [Test Mode=PTC-ITCR or Test Mode=TETRA DMO or Test Mode=TETRA TMO or Test Mode=TETRA Base Station], HCPM [Test Mode=P25 II], HDQPSK [Test Mode=P25 II and Operating Mode=Monitor or Test Mode=P25 II and Operating Mode=Generate]

Availability:

Operating Mode: Duplex

Menu: P25_TRUNK

Typical Completion Time: 100 ms

Name: Modulation Mode

Tag: P25_TRUNK: Gen Mod Mode

Commands: GET, SET

Data Type: LIST

List Values: Off, Continuous

Availability:

Operating Mode: Duplex

Menu: P25_TRUNK: Subzone=BER

Typical Completion Time: 500 ms

Name: NAC (Hex)

Tag: P25_TRUNK: NAC

Commands: GET, SET

Data Type: STRING

Format: 0x000

Availability:

Operating Mode: Duplex

Menu: P25_TRUNK

Typical Completion Time: 100 ms

Name: Voice Call

Tag: P25_TRUNK: Voice Call

Commands: GET, SET

Data Type: LIST

List Values: Stop, Start

Availability:

Operating Mode: Duplex

Menu: P25_TRUNK: Subzone=Alert/Dispatch

Typical Completion Time: 100 ms

Name: Send Call Alert

Tag: P25_TRUNK: Call Alert

Commands: DO

Data Type: FUNCTION

Availability:

Operating Mode: Duplex

Menu: P25_TRUNK: Subzone=Alert/Dispatch


Typical Completion Time: 100 ms

Name: WACN ID (Hex)

Tag: P25_TRUNK: WACN ID

Commands: GET, SET

Data Type: STRING

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 97 OF 172	

Format:0x00000

Availability:

Operating Mode:Duplex

Menu:P25_TRUNK:Subzone=Alert/Dispatch

Typical Completion Time:100 ms

Name:SYSTEM ID (Hex)

Tag:P25_TRUNK:SYSTEM ID

Commands:GET, SET

Data Type:STRING

Format:0x000

Availability:

Operating Mode:Duplex

Menu:P25_TRUNK:Subzone=Alert/Dispatch

Typical Completion Time:100 ms

Name:Bandplan Table

Tag:P25_TRUNK:BANDPLAN Table

Commands:GO

Data Type:SUBMENU

Availability:

Operating Mode:Duplex

Menu:P25_TRUNK:Subzone=Alert/Dispatch

Typical Completion Time:2000 ms

Name:CCTx Channel ID

Tag:P25_TRUNK:CCTx Chnl Id

Commands:GET, SET

Data Type:INTEGER

Range: 1 to 16

Availability:

Operating Mode:Duplex

Menu:P25_TRUNK:Subzone=Alert/Dispatch

Typical Completion Time:100 ms

Name:CCTx Channel

Tag:P25_TRUNK:CCTx Chnl

Commands:GET, SET

Data Type:INTEGER

Range: 0 to 4095

Availability:

Operating Mode:Duplex

Menu:P25_TRUNK:Subzone=Alert/Dispatch

Typical Completion Time:100 ms

Name:Control Chnl TX Frequency

Tag:P25_TRUNK:CCTx

Commands:GET, SET

Data Type:FLOAT

Range: 250000 Hz to 1000000000 Hz


Units: Hz, kHz, MHz, GHz

Availability:

Operating Mode:Duplex

Menu:P25_TRUNK:Subzone=Alert/Dispatch

Typical Completion Time:100 ms

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 98 OF 172	

Name:CCRx Channel ID
 Tag:P25_TRUNK:CCRx Chnl Id
 Commands:GET, SET
 Data Type:INTEGER
 Range: 1 to 16
 Availability:
 Operating Mode:Duplex
 Menu:P25_TRUNK:Subzone=Alert/Dispatch
 Typical Completion Time:100 ms


Name:CCRx Channel
 Tag:P25_TRUNK:CCRx Chnl
 Commands:GET, SET
 Data Type:INTEGER
 Range: 0 to 4095
 Availability:
 Operating Mode:Duplex
 Menu:P25_TRUNK:Subzone=Alert/Dispatch
 Typical Completion Time:100 ms

Name:Control Chnl RX Frequency
 Tag:P25_TRUNK:CCRx
 Commands:GET, SET
 Data Type:FLOAT
 Range: 250000 Hz to 1000000000 Hz
 Units: Hz, kHz, MHz, GHz
 Availability:
 Operating Mode:Duplex
 Menu:P25_TRUNK:Subzone=Alert/Dispatch
 Typical Completion Time:100 ms

Name:VCTx Channel ID
 Tag:P25_TRUNK:VCTx Chnl Id
 Commands:GET, SET
 Data Type:INTEGER
 Range: 1 to 16
 Availability:
 Operating Mode:Duplex
 Menu:P25_TRUNK:Subzone=Alert/Dispatch
 Typical Completion Time:100 ms

Name:VCTx Channel
 Tag:P25_TRUNK:VCTx Chnl
 Commands:GET, SET
 Data Type:INTEGER
 Range: 0 to 4095
 Availability:
 Operating Mode:Duplex
 Menu:P25_TRUNK:Subzone=Alert/Dispatch
 Typical Completion Time:100 ms

Name:Voice Chnl TX Frequency
 Tag:P25_TRUNK:VCTx
 Commands:GET, SET

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 99 OF 172	

Data Type:FLOAT
 Range: 250000 Hz to 1000000000 Hz
 Units: Hz, kHz, MHz, GHz
 Availability:
 Operating Mode:Duplex
 Menu:P25_TRUNK:Subzone=Alert/Dispatch
 Typical Completion Time:100 ms


Name:VCRx Channel ID
 Tag:P25_TRUNK:VCRx Chnl Id
 Commands:GET, SET
 Data Type:INTEGER
 Range: 1 to 16
 Availability:
 Operating Mode:Duplex
 Menu:P25_TRUNK:Subzone=Alert/Dispatch
 Typical Completion Time:100 ms

Name:VCRx Channel
 Tag:P25_TRUNK:VCRx Chnl
 Commands:GET, SET
 Data Type:INTEGER
 Range: 0 to 4095
 Availability:
 Operating Mode:Duplex
 Menu:P25_TRUNK:Subzone=Alert/Dispatch
 Typical Completion Time:100 ms

Name:Voice Chnl RX Frequency
 Tag:P25_TRUNK:VCRx
 Commands:GET, SET
 Data Type:FLOAT
 Range: 250000 Hz to 1000000000 Hz
 Units: Hz, kHz, MHz, GHz
 Availability:
 Operating Mode:Duplex
 Menu:P25_TRUNK:Subzone=Alert/Dispatch
 Typical Completion Time:100 ms

Name:Reset Symbol Rate Error
 Tag:P25_TRUNK:Reset SRE
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:Duplex
 Menu:P25_TRUNK
 Typical Completion Time:100 ms

Name:BER Test
 Tag:P25_TRUNK:BER Test
 Commands:GET, SET
 Data Type:LIST
 List Values: Stop, Start
 Availability:
 Operating Mode:Duplex

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 100 OF 172	

Menu:P25_TRUNK
 Typical Completion Time:500 ms

Name:Test Pattern
 Tag:P25_TRUNK:Test Pattern
 Commands:GET, SET
 Data Type:LIST
 List Values: 1011 Hz Tone, Calibration (Tone 5%), Standard Tx (0.153/V.52),
 Silence
 Availability:
 Operating Mode:Duplex
 Menu:P25_TRUNK:Subzone=BER
 Typical Completion Time:100 ms


Name:BS Mode
 Tag:P25_TRUNK:P25_EXP
 Commands:GET, SET
 Data Type:LIST
 List Values: Implicit, Explicit
 Availability:
 Operating Mode:Duplex
 Option:R8-P25_EXP
 Menu:P25_TRUNK:Subzone=Alert/Dispatch
 Typical Completion Time:100 ms

Name>Select Channel to Edit
 Tag:BANDPLAN>Select Channel
 Commands:GET, SET
 Data Type:LIST
 List Values: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16
 Availability:
 Menu:BANDPLAN
 Typical Completion Time:100 ms

Name>Select Plan
 Tag:BANDPLAN:Band Plan Files
 Commands:GET, SET
 Data Type:LIST
 List Values:
 Availability:
 Menu:BANDPLAN
 Typical Completion Time:0 ms

Name:Save Plan As
 Tag:BANDPLAN:New
 Commands:GET, SET
 Data Type:STRING
 char set:0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F, G, H, I, J, K, L, M,
 N, O, P, Q, R, S, T, U, V, W, X, Y, Z, , ., _, (,)
 Availability:
 Menu:BANDPLAN
 Typical Completion Time:2000 ms

Name:Base Frequency
 Tag:BANDPLAN:Base Frequency

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 101 OF 172	

Commands:GET, SET
 Data Type:FLOAT
 Range: 250000 Hz to 1000000000 Hz
 Units: Hz, kHz, MHz, GHz
 Availability:
 Operating Mode:Duplex
 Menu:BANDPLAN
 Typical Completion Time:100 ms


Name:Channel Spacing (kHz)
 Tag:BANDPLAN:Chnl Spacing
 Commands:GET, SET
 Data Type:FLOAT
 Range: 0.125 to 511.875
 Availability:
 Operating Mode:Duplex
 Menu:BANDPLAN
 Typical Completion Time:100 ms

Name:Transmit Offset (MHz)
 Tag:BANDPLAN:TX Offset
 Commands:GET, SET
 Data Type:FLOAT
 Availability:
 Operating Mode:Duplex
 Menu:BANDPLAN
 Typical Completion Time:100 ms

Name:Bandwidth
 Tag:BANDPLAN:Bandwidth
 Commands:GET, SET
 Data Type:LIST
 List Values: 6.25 kHz, 12.5 kHz
 Availability:
 Operating Mode:Duplex
 Menu:BANDPLAN
 Typical Completion Time:100 ms

Name:NAC (Hex)
 Tag:BANDPLAN:NAC
 Commands:GET, SET
 Data Type:STRING
 Format:0x000
 Availability:
 Operating Mode:Duplex
 Menu:BANDPLAN
 Typical Completion Time:100 ms

Name:WACN ID (Hex)
 Tag:BANDPLAN:WACN ID
 Commands:GET, SET
 Data Type:STRING
 Format:0x00000
 Availability:
 Operating Mode:Duplex

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 102 OF 172	

Menu: BANDPLAN
 Typical Completion Time: 100 ms

Name: SYSTEM ID (Hex)
 Tag: BANDPLAN: SYSTEM ID
 Commands: GET, SET
 Data Type: STRING
 Format: 0x000
 Availability:
 Operating Mode: Duplex
 Menu: BANDPLAN
 Typical Completion Time: 100 ms


Name: WUID (Hex)
 Tag: BANDPLAN: WUID
 Commands: GET, SET
 Data Type: STRING
 Format: 0x000000
 Availability:
 Operating Mode: Duplex
 Menu: BANDPLAN
 Typical Completion Time: 100 ms

Name: RFSS ID (Hex)
 Tag: BANDPLAN: RFSS ID
 Commands: GET, SET
 Data Type: STRING
 Format: 0x00
 Availability:
 Operating Mode: Duplex
 Menu: BANDPLAN
 Typical Completion Time: 100 ms

Name: WGID (Hex)
 Tag: BANDPLAN: WGID
 Commands: GET, SET
 Data Type: STRING
 Format: 0x0000
 Availability:
 Operating Mode: Duplex
 Menu: BANDPLAN
 Typical Completion Time: 100 ms

Name: SITE ID (Hex)
 Tag: BANDPLAN: SITE ID
 Commands: GET, SET
 Data Type: STRING
 Format: 0x00
 Availability:
 Operating Mode: Duplex
 Menu: BANDPLAN
 Typical Completion Time: 100 ms

Name: Identifier Update
 Tag: BANDPLAN: Iden Up

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 103 OF 172	

Commands:GET, SET
 Data Type:BOOLEAN
 List Values: Off, On
 Availability:
 Operating Mode:Duplex
 Menu:BANDPLAN
 Typical Completion Time:100 ms

Name:
 Tag:BANDPLAN:Channels
 Commands:GET
 Data Type:ARRAY
 Availability:
 Menu:BANDPLAN
 Typical Completion Time:0 ms


Name:
 Tag:NXDN:BER Result
 Commands:GET
 Data Type:FLOAT
 Range: 0 to 100
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:NXDN
 Typical Completion Time:0 ms

Name:Symbol Deviation (Hz)
 Tag:NXDN:Symbol Deviation
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:NXDN
 Typical Completion Time:0 ms

Name:
 Tag:NXDN:Modulation Fidelity
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:NXDN
 Typical Completion Time:0 ms

Name:Bit Rate (bps)
 Tag:NXDN:Bit Rate
 Commands:GET, SET
 Data Type:BOOLEAN
 List Values: 4800, 9600
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:NXDN
 Typical Completion Time:100 ms

Name:Reset Symbol Rate Error

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 104 OF 172	

Tag:NXDN:Reset SRE
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:NXDN
 Typical Completion Time:100 ms


Name:
 Tag:NXDN:Monitor RAN
 Commands:GET
 Data Type:STRING
 Availability:
 Menu:NXDN
 Typical Completion Time:0 ms

Name:Copy RAN to Generator
 Tag:NXDN:Copy RAN to Generator
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:NXDN
 Typical Completion Time:100 ms

Name:RAN (encode)
 Tag:NXDN:Generate RAN
 Commands:GET, SET
 Data Type:INTEGER
 Range: 0 to 63
 Availability:
 Operating Mode:Generate, Duplex
 Menu:NXDN
 Typical Completion Time:100 ms

Name:Mon Test Pattern
 Tag:NXDN:Mon Test Pattern
 Commands:GET, SET
 Data Type:LIST
 List Values: 1031 Hz Tone [NXDN:Bit Rate=4800], 1031 Hz Tone [NXDN:Bit Rate=9600], 1011 Hz Tone [NXDN:Bit Rate=9600], Calibration (0.153 2%), 511 (0.153/PN9)
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:NXDN
 Typical Completion Time:100 ms

Name:Gen Test Pattern
 Tag:NXDN:Gen Test Pattern
 Commands:GET, SET
 Data Type:LIST
 List Values: 1031 Hz Tone [NXDN:Bit Rate=4800], 1031 Hz Tone [NXDN:Bit Rate=9600], 1011 Hz Tone [NXDN:Bit Rate=9600], Calibration (0.153 2%), 511 (0.153/PN9), 511 (0.153/FSW+PN9) [Operating Mode=Generate], Interference

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 105 OF 172	

[Operating Mode=Generate], Max Freq Deviation [Operating Mode=Generate], 1/3
 Freq Deviation [Operating Mode=Generate]

Availability:

Operating Mode:Generate, Duplex
 Menu:NXDN

Typical Completion Time:100 ms

Name:Generate Modulation Mode

Tag:NXDN:Gen Mod Mode

Commands:GET, SET

Data Type:LIST

List Values: Off, Continuous, Burst

Availability:

Operating Mode:Generate, Duplex
 Menu:NXDN

Typical Completion Time:500 ms

Name:BER Test

Tag:NXDN:BER Test

Commands:GET, SET

Data Type:LIST

List Values: Stop, Start

Availability:

Operating Mode:Monitor, Duplex
 Menu:NXDN

Typical Completion Time:500 ms

Name:Eye Diagram Data

Tag:NXDN:Eye Data

Commands:GET

Data Type:ARRAY

Availability:

Operating Mode:Monitor, Duplex
 Menu:NXDN

Typical Completion Time:100 ms

Name:NXDN Library Version

Tag:NXDN:Version

Commands:GET

Data Type:STRING

Availability:

Menu:NXDN

Typical Completion Time:0 ms

Name:Symbol Rate Error (mHz)

Tag:NXDN:Symbol Rate Error

Commands:GET

Data Type:FLOAT


Availability:

Operating Mode:Monitor, Duplex
 Menu:NXDN

Typical Completion Time:0 ms

Name:Subzone

Tag:NXDN_TRUNK:Subzone

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 106 OF 172	

Commands:GET, SET
 Data Type:LIST
 List Values: Alert/Dispatch, BER
 Availability:
 Operating Mode:Duplex
 Menu:NXDN_TRUNK
 Typical Completion Time:100 ms


Name:Modulation Mode
 Tag:NXDN_TRUNK:Gen Mod Mode
 Commands:GET, SET
 Data Type:LIST
 List Values: Off, Continuous
 Availability:
 Operating Mode:Duplex
 Menu:NXDN_TRUNK:Subzone=BER
 Typical Completion Time:500 ms

Name:Voice Call
 Tag:NXDN_TRUNK:Voice Call
 Commands:GET, SET
 Data Type:LIST
 List Values: Stop, Start
 Availability:
 Operating Mode:Duplex
 Menu:NXDN_TRUNK:Subzone=Alert/Dispatch
 Typical Completion Time:100 ms

Name:Test Pattern
 Tag:NXDN_TRUNK:Test Pattern
 Commands:GET, SET
 Data Type:LIST
 List Values: 1031 Hz Tone [NXDN_TRUNK:Bit Rate=4800], 1031 Hz Tone [NXDN_TRUNK:Bit Rate=9600], 1011 Hz Tone [NXDN_TRUNK:Bit Rate=9600], Calibration (0.153 2%), 511 (0.153/PN9)
 Availability:
 Operating Mode:Duplex
 Menu:NXDN_TRUNK:Subzone=BER
 Typical Completion Time:100 ms

Name:BER Test
 Tag:NXDN_TRUNK:BER Test
 Commands:GET, SET
 Data Type:LIST
 List Values: Stop, Start
 Availability:
 Operating Mode:Duplex
 Menu:NXDN_TRUNK
 Typical Completion Time:500 ms

Name:Send Status Inquiry
 Tag:NXDN_TRUNK:Status Inquiry
 Commands:DO
 Data Type:FUNCTION
 Availability:

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 107 OF 172	

Operating Mode: Duplex
 Menu: NXDN_TRUNK: Subzone=Alert/Dispatch
 Typical Completion Time: 100 ms


Name: CCTx Channel
 Tag: NXDN_TRUNK: CCTx Chnl
 Commands: GET, SET
 Data Type: INTEGER
 Range: 0 to 1023
 Availability:
 Operating Mode: Duplex
 Menu: NXDN_TRUNK: Subzone=Alert/Dispatch
 Typical Completion Time: 100 ms

Name: VCTx Channel
 Tag: NXDN_TRUNK: VCTx Chnl
 Commands: GET, SET
 Data Type: INTEGER
 Range: 0 to 1023
 Availability:
 Operating Mode: Duplex
 Menu: NXDN_TRUNK: Subzone=Alert/Dispatch
 Typical Completion Time: 100 ms

Name: Control Chnl TX Frequency
 Tag: NXDN_TRUNK: CCTx
 Commands: GET, SET
 Data Type: FLOAT
 Range: 250000 Hz to 1000000000 Hz
 Units: Hz, kHz, MHz, GHz
 Availability:
 Operating Mode: Duplex
 Menu: NXDN_TRUNK: Subzone=Alert/Dispatch
 Typical Completion Time: 100 ms

Name: Voice Chnl TX Frequency
 Tag: NXDN_TRUNK: VCTx
 Commands: GET, SET
 Data Type: FLOAT
 Range: 250000 Hz to 1000000000 Hz
 Units: Hz, kHz, MHz, GHz
 Availability:
 Operating Mode: Duplex
 Menu: NXDN_TRUNK: Subzone=Alert/Dispatch
 Typical Completion Time: 100 ms

Name: Transmit Offset (MHz)
 Tag: NXDN_TRUNK: Tx Off
 Commands: GET, SET
 Data Type: FLOAT
 Range: -99.999999 to 99.999999
 Availability:
 Operating Mode: Duplex
 Menu: NXDN_TRUNK: Subzone=Alert/Dispatch
 Typical Completion Time: 100 ms

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 108 OF 172	

Name: System Code
 Tag: NXDN_TRUNK:SYSTEM ID
 Commands: GET, SET
 Data Type: STRING
 char set: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9
 Availability:
 Operating Mode: Duplex
 Menu: NXDN_TRUNK:Subzone=Alert/Dispatch
 Typical Completion Time: 100 ms


Name: Site Code
 Tag: NXDN_TRUNK:SITE ID
 Commands: GET, SET
 Data Type: STRING
 char set: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9
 Availability:
 Operating Mode: Duplex
 Menu: NXDN_TRUNK:Subzone=Alert/Dispatch
 Typical Completion Time: 100 ms

Name: Unit ID
 Tag: NXDN_TRUNK:WUID
 Commands: GET, SET
 Data Type: INTEGER
 Range: 0 to 65535
 Availability:
 Operating Mode: Duplex
 Menu: NXDN_TRUNK:Subzone=Alert/Dispatch
 Typical Completion Time: 100 ms

Name: Group ID
 Tag: NXDN_TRUNK:WGID
 Commands: GET, SET
 Data Type: INTEGER
 Range: 0 to 65535
 Availability:
 Operating Mode: Duplex
 Menu: NXDN_TRUNK:Subzone=Alert/Dispatch
 Typical Completion Time: 100 ms

Name: Category
 Tag: NXDN_TRUNK:Category
 Commands: GET, SET
 Data Type: INTEGER
 Range: 0 to 2
 Availability:
 Operating Mode: Duplex
 Menu: NXDN_TRUNK:Subzone=Alert/Dispatch
 Typical Completion Time: 100 ms

Name: Bit Rate (bps)
 Tag: NXDN_TRUNK:Bit Rate
 Commands: GET, SET
 Data Type: LIST

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 109 OF 172	

List Values: 4800, 9600

Availability:

Operating Mode: Duplex

Menu: NXDN_TRUNK: Subzone=Alert/Dispatch, BER

Typical Completion Time: 100 ms

Name: Voice Playback

Tag: NXDN_TRUNK: Voice Playback

Commands: GET, SET

Data Type: BOOLEAN

List Values: Off, On

Availability:

Operating Mode: Duplex

Menu: NXDN_TRUNK: Subzone=Alert/Dispatch

Typical Completion Time: 100 ms

Name: Constellation Data

Tag: TETRA: Constellation Data

Commands: GET

Data Type: ARRAY

Availability:

Menu: TETRA

Typical Completion Time: 100 ms

Name:

Tag: TETRA: Modulation Spectrum

Commands: GET

Data Type: ARRAY

Availability:

Menu: TETRA

Typical Completion Time: 100 ms

Name: Reset Averaging

Tag: TETRA: Reset RX

Commands: DO

Data Type: FUNCTION

Availability:

Operating Mode: Monitor

Menu: TETRA

Typical Completion Time: 100 ms

Name: Measurement Averaging

Tag: TETRA: Measurement Averaging

Commands: GET, SET

Data Type: INTEGER

Range: 1 to 250

Availability:

Operating Mode: Monitor

Menu: TETRA


Typical Completion Time: 100 ms

Name: Unwanted Power in Slot 3

Tag: TETRA: Unwanted Active

Commands: GET, SET

Data Type: BOOLEAN

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 110 OF 172	

List Values: No, Yes

Availability:

Operating Mode:Monitor

Menu:TETRA

Typical Completion Time:100 ms

Name:

Tag:TETRA:Symbol Deviation

Commands:GET

Data Type:FLOAT

Availability:

Operating Mode:Monitor

Menu:TETRA

Typical Completion Time:0 ms

Name:

Tag:TETRA:EVM RMS

Commands:GET

Data Type:FLOAT

Availability:

Operating Mode:Monitor

Menu:TETRA

Typical Completion Time:0 ms

Name:

Tag:TETRA:EVM Peak

Commands:GET

Data Type:FLOAT

Availability:

Operating Mode:Monitor

Menu:TETRA

Typical Completion Time:0 ms

Name:

Tag:TETRA:Unwanted Power

Commands:GET

Data Type:FLOAT

Availability:

Operating Mode:Monitor

Menu:TETRA

Typical Completion Time:0 ms

Name:

Tag:TETRA:Residual Power

Commands:GET

Data Type:FLOAT

Availability:

Operating Mode:Monitor

Menu:TETRA


Typical Completion Time:0 ms

Name:Test Pattern

Tag:TETRA:Test Pattern

Commands:GET, SET

Data Type:LIST

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 111 OF 172	

List Values: 1000 Hz Tone, Silence

Availability:

Operating Mode:Generate

Menu:TETRA

Typical Completion Time:100 ms

Name:Modulation Mode

Tag:TETRA:Gen Mod Mode

Commands:GET, SET

Data Type:LIST

List Values: Off, Continuous

Availability:

Operating Mode:Generate

Menu:TETRA

Typical Completion Time:500 ms

Name:TETRA DMO Library Version

Tag:TETRA:Version

Commands:GET

Data Type:STRING

Availability:

Menu:TETRA

Typical Completion Time:0 ms

Name:

Tag:TETRA_TMO:HORZ MENU

Commands:GET, SET

Data Type:LIST

List Values: Call Mobile, Channel Plan, TX Test, RX Test, PLC Test, T1 Test, Main Screen

Availability:

Menu:TETRA_TMO

Typical Completion Time:0 ms

Name:Graphical Displays

Tag:TETRA_TMO:Graphical Displays

Commands:DO

Data Type:FUNCTION

Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_TMO

Typical Completion Time:500 ms

Name:Call Type

Tag:TETRA_TMO:Call Type

Commands:GET, SET

Data Type:LIST

List Values: Individual Duplex, Individual Simplex, Group, Phone, Emergency, SDS/DTMF/DGNA, Ambient Listening


Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_TMO

Typical Completion Time:500 ms

Name>Select Group

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 112 OF 172	

Tag:TETRA_TMO>Select Group

Commands:GET, SET

Data Type:LIST

List Values: No Selection

Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_TMO

Typical Completion Time:500 ms

Name:Voice Loopback

Tag:TETRA_TMO:Voice Loopback

Commands:GET, SET

Data Type:LIST

List Values: Voice, 2.4kHz, 1.6kHz, 1kHz, 800Hz, 400Hz, Off

Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_TMO

Typical Completion Time:500 ms

Name:RF Output Level (dBm)

Tag:TETRA_TMO:RF Output Level

Commands:GET, SET

Data Type:FLOAT

Range: -130 to -30

Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_TMO

Typical Completion Time:1000 ms

Name:Attenuation

Tag:TETRA_TMO:Attenuation

Commands:GET, SET

Data Type:LIST

List Values: 0 dB, 2 dB, 4 dB, 6 dB, 8 dB, 10 dB, 12 dB, 14 dB, 16 dB, 18 dB, 20 dB, 22 dB, 24 dB, 26 dB, 28 dB, 30 dB, 32 dB, 34 dB, 36 dB, 38 dB, 40 dB, 42 dB, 44 dB, 46 dB, 48 dB, 50 dB, 52 dB, 54 dB, 56 dB, 58 dB, 60 dB, 62 dB

Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_TMO

Typical Completion Time:500 ms

Name:Average Readings

Tag:TETRA_TMO:Average Readings

Commands:GET, SET

Data Type:INTEGER

Range: 1 to 100

Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_TMO


Typical Completion Time:500 ms

Name:Test Limits

Tag:TETRA_TMO:Test Limits

Commands:DO

Data Type:FUNCTION

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 113 OF 172	

Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_TMO

Typical Completion Time:500 ms

Name:Sync

Tag:TETRA_TMO:Sync

Commands:DO

Data Type:FUNCTION

Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_TMO

Typical Completion Time:4000 ms

Name:Command Registration

Tag:TETRA_TMO:Command Registration

Commands:DO

Data Type:FUNCTION

Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_TMO

Typical Completion Time:1000 ms

Name:

Tag:TETRA_TMO:RF Power

Commands:GET

Data Type:FLOAT

Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_TMO

Typical Completion Time:0 ms

Name:

Tag:TETRA_TMO:Unwanted Output Power

Commands:GET

Data Type:FLOAT

Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_TMO

Typical Completion Time:0 ms

Name:

Tag:TETRA_TMO:Residual Power

Commands:GET

Data Type:FLOAT

Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_TMO

Typical Completion Time:0 ms


Name:

Tag:TETRA_TMO:Freq Error

Commands:GET

Data Type:FLOAT

Availability:

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 114 OF 172	

Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:0 ms

Name:
 Tag:TETRA_TMO:EVM RMS
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:0 ms


Name:
 Tag:TETRA_TMO:EVM Peak
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:0 ms

Name:
 Tag:TETRA_TMO:Frame Alignment
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:0 ms

Name:Bar Charts
 Tag:TETRA_TMO:Bar Charts
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:100 ms

Name:Spectrum
 Tag:TETRA_TMO:Spectrum
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:100 ms

Name:Power Profile
 Tag:TETRA_TMO:Power Profile
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:Monitor, Duplex

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 115 OF 172	

Menu:TETRA_TMO
 Typical Completion Time:100 ms

Name:Constellation
 Tag:TETRA_TMO:Constellation
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:100 ms


Name:Upper Mini Graph
 Tag:TETRA_TMO:UpperGraph
 Commands:GET, SET
 Data Type:LIST
 List Values: Spectrum, Power Profile, Symbols, Trajectories
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:100 ms

Name:Lower Mini Graph
 Tag:TETRA_TMO:LowerGraph
 Commands:GET, SET
 Data Type:LIST
 List Values: Spectrum, Power Profile, Symbols, Trajectories, Bar Graphs
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:100 ms

Name:Frequency
 Tag:TETRA_TMO:CPFrequency
 Commands:GET, SET
 Data Type:FLOAT
 Range: 250000 Hz to 1000000000 Hz
 Units: Hz, kHz, MHz, GHz
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:500 ms

Name:Band
 Tag:TETRA_TMO:Band
 Commands:GET, SET
 Data Type:LIST
 List Values: 100 MHz, 300 MHz, 400 MHz, 450 MHz, 800 MHz, 900 MHz
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:500 ms

Name:MCCH
 Tag:TETRA_TMO:MCCH

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 116 OF 172	

Commands:GET, SET
 Data Type:INTEGER
 Range: -10000 to 10000
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:500 ms


Name:TS
 Tag:TETRA_TMO:TS
 Commands:GET, SET
 Data Type:LIST
 List Values: 2, 3, 4
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:500 ms

Name:Channel Offset
 Tag:TETRA_TMO:Channel Offset
 Commands:GET, SET
 Data Type:LIST
 List Values: 0 Hz, 6.250 kHz, -6.25 kHz, 12.500 kHz, -12.500 kHz
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:500 ms

Name:Duplex Offset
 Tag:TETRA_TMO:Duplex Offset
 Commands:GET, SET
 Data Type:LIST
 List Values: 1.6 MHz [TETRA_TMO:Band=100 MHz], 4.5 MHz [TETRA_TMO:Band=100 MHz], 5 MHz [TETRA_TMO:Band=400 MHz or TETRA_TMO:Band=450 MHz], 10 MHz [TETRA_TMO:Band=300 MHz or TETRA_TMO:Band=400 MHz or TETRA_TMO:Band=450 MHz], 45 MHz [TETRA_TMO:Band=800 MHz or TETRA_TMO:Band=900 MHz]
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:500 ms

Name:Operating Mode
 Tag:TETRA_TMO:Operating Mode
 Commands:GET, SET
 Data Type:LIST
 List Values: Normal, Reverse
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:500 ms

Name:Connection Mode
 Tag:TETRA_TMO:Connection Mode
 Commands:GET, SET
 Data Type:LIST

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 117 OF 172	

List Values: Normal, Fallback

Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_TMO

Typical Completion Time:500 ms

Name:MCC

Tag:TETRA_TMO:MCC

Commands:GET, SET

Data Type:INTEGER

Range: 0 to 500

Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_TMO

Typical Completion Time:500 ms

Name:MNC

Tag:TETRA_TMO:MNC

Commands:GET, SET

Data Type:INTEGER

Range: 0 to 10000

Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_TMO

Typical Completion Time:500 ms

Name:BCC

Tag:TETRA_TMO:BCC

Commands:GET, SET

Data Type:INTEGER

Range: 0 to 10

Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_TMO

Typical Completion Time:500 ms

Name:LArea

Tag:TETRA_TMO:Larea

Commands:GET, SET

Data Type:INTEGER

Range: 0 to 10

Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_TMO

Typical Completion Time:500 ms

Name:Limits Default

Tag:TETRA_TMO:Limits Default

Commands:DO


Data Type:FUNCTION

Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_TMO

Typical Completion Time:500 ms

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 118 OF 172	

Name:Power Class
 Tag:TETRA_TMO:Power Class
 Commands:GET, SET
 Data Type:LIST
 List Values: 2 (10W), 2L (5.6W), 3 (3W), 3L (1.8W), 4 (1W), 4L (0.56W)
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:100 ms


Name:Unwanted Power
 Tag:TETRA_TMO:Unwanted Power
 Commands:GET, SET
 Data Type:INTEGER
 Range: -50 to 0
 Availability:
 Menu:TETRA_TMO
 Typical Completion Time:100 ms

Name:Residual Carrier Power
 Tag:TETRA_TMO:Residual Carrier Power
 Commands:GET, SET
 Data Type:INTEGER
 Range: 0 to 10
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:100 ms

Name:Frequency Error
 Tag:TETRA_TMO:Frequency Error
 Commands:GET, SET
 Data Type:INTEGER
 Range: 0 to 200
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:100 ms

Name:RMS Vector
 Tag:TETRA_TMO:RMS Vector
 Commands:GET, SET
 Data Type:INTEGER
 Range: 0 to 50
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:100 ms

Name:Peak Vector
 Tag:TETRA_TMO:Peak Vector
 Commands:GET, SET
 Data Type:INTEGER
 Range: 0 to 50
 Availability:

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 119 OF 172	

Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:100 ms

Name:Frame Align Symbols
 Tag:TETRA_TMO:Frame Align Limit
 Commands:GET, SET
 Data Type:FLOAT
 Range: 0 to 1
 Availability:

Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:100 ms

Name:RX Sensitivity
 Tag:TETRA_TMO:RX Sensitivity
 Commands:GET, SET
 Data Type:INTEGER
 Range: -125 to 0
 Availability:

Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:100 ms

Name:MS T1 BER
 Tag:TETRA_TMO:MS T1 BER
 Commands:GET, SET
 Data Type:FLOAT
 Range: 0 to 10
 Availability:

Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:100 ms


Name:MS T1 MER
 Tag:TETRA_TMO:MS T1 MER
 Commands:GET, SET
 Data Type:FLOAT
 Range: 0 to 10
 Availability:

Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:100 ms

Name:Burst Samples
 Tag:TETRA_TMO:Burst Samples
 Commands:GET, SET
 Data Type:INTEGER
 Range: 1 to 1000000
 Availability:

Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:100 ms

Name:Start Test

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 120 OF 172	

Tag:TETRA_TMO:Start Test
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:100 ms


Name:RX Test
 Tag:TETRA_TMO:RX Test
 Commands:
 Data Type:BOOLEAN
 List Values:
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:100 ms

Name:Start Level
 Tag:TETRA_TMO:Start Level
 Commands:GET, SET
 Data Type:INTEGER
 Range: -130 to -30
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:100 ms

Name:Step Level
 Tag:TETRA_TMO:Step Level
 Commands:GET, SET
 Data Type:INTEGER
 Range: 1 to 10
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:100 ms

Name:Start RX Test
 Tag:TETRA_TMO:Start RX Test
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:100 ms

Name:
 Tag:TETRA_TMO:RXSensitivityResult
 Commands:GET
 Data Type:STRING
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:100 ms

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 121 OF 172	

Name:Start PLC Test
 Tag:TETRA_TMO:Start PLC Test
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:100 ms


Name:
 Tag:TETRA_TMO:PL1
 Commands:GET
 Data Type:STRING
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:100 ms

Name:
 Tag:TETRA_TMO:PL2
 Commands:GET
 Data Type:STRING
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:100 ms

Name:
 Tag:TETRA_TMO:PL3
 Commands:GET
 Data Type:STRING
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:100 ms

Name:
 Tag:TETRA_TMO:PL4
 Commands:GET
 Data Type:STRING
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:100 ms

Name:
 Tag:TETRA_TMO:PL5
 Commands:GET
 Data Type:STRING
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:100 ms

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 122 OF 172	

Name:

Tag:TETRA_TMO:PL6

Commands:GET

Data Type:STRING

Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_TMO

Typical Completion Time:100 ms

Name:T1 Burst Type

Tag:TETRA_TMO:T1 Burst Type

Commands:GET, SET

Data Type:LIST

List Values: TCH/7.2, SCH/F, BSCH+SCH/HD

Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_TMO

Typical Completion Time:100 ms

Name:MS Mode

Tag:TETRA_TMO:T1 MS Mode

Commands:GET, SET

Data Type:LIST

List Values: MS TX Test, MS RX Test, RF Loopback

Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_TMO

Typical Completion Time:100 ms

Name:RF Output Level (dBm)

Tag:TETRA_TMO:T1 RF Level

Commands:GET, SET

Data Type:INTEGER

Range: -130 to -30

Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_TMO

Typical Completion Time:1000 ms

Name:Start Test

Tag:TETRA_TMO:Start T1 Test

Commands:DO

Data Type:FUNCTION

Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_TMO

Typical Completion Time:100 ms

Name:Stop Test

Tag:TETRA_TMO:Stop T1 Test


Commands:DO

Data Type:FUNCTION

Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_TMO

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 123 OF 172	

Typical Completion Time:100 ms

Name:ETSI Test
 Tag:TETRA_TMO:ETSI T1 Test
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:100 ms


Name:
 Tag:TETRA_TMO:T1 BER
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:0 ms

Name:
 Tag:TETRA_TMO:T1 MER
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_TMO
 Typical Completion Time:0 ms

Name:TETRA TMO Library Version
 Tag:TETRA_TMO:Version
 Commands:GET
 Data Type:STRING
 Availability:
 Menu:TETRA_TMO
 Typical Completion Time:0 ms

Name:
 Tag:TETRA_BST:HORIZ MENU
 Commands:GET, SET
 Data Type:LIST
 List Values: Test Limits, TX Test [Option<>R8-TETRA_BST1], [Option<>R8-TETRA_BST1], Channel Plan [Option=R8-TETRA_BST1], T1 Test [Option=R8-TETRA_BST1], , , , Main Screen
 Availability:
 Menu:TETRA_BST
 Typical Completion Time:0 ms

Name:Graphical Displays
 Tag:TETRA_BST:Graphical Displays
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_BST

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 124 OF 172	

Typical Completion Time:100 ms


Name:Test Mode
 Tag:TETRA_BST:BSMode
 Commands:GET, SET
 Data Type:LIST
 List Values: Monitor Mode, T1 Mode
 Availability:
 Operating Mode:Monitor, Duplex
 Option:R8-TETRA_BST1
 Menu:TETRA_BST
 Typical Completion Time:100 ms

Name:BS OEM
 Tag:TETRA_BST:BS OEM
 Commands:GET, SET
 Data Type:LIST
 List Values: User Defined, Cassidian TB3, Motorola Dimetra, Motorola MTS 1, Rohill TetraNode
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_BST
 Typical Completion Time:500 ms

Name:Downlink Frequency
 Tag:TETRA_BST:Downlink Frequency
 Commands:GET, SET
 Data Type:FLOAT
 Range: 380000000 Hz to 400000000 Hz
 Units: Hz, kHz, MHz, GHz
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_BST
 Typical Completion Time:1000 ms

Name:Attenuation
 Tag:TETRA_BST:Attenuation
 Commands:GET, SET
 Data Type:LIST
 List Values: 0 dB, 2 dB, 4 dB, 6 dB, 8 dB, 10 dB, 12 dB, 14 dB, 16 dB, 18 dB, 20 dB, 22 dB, 24 dB, 26 dB, 28 dB, 30 dB, 32 dB, 34 dB, 36 dB, 38 dB, 40 dB, 42 dB, 44 dB, 46 dB, 48 dB, 50 dB, 52 dB, 54 dB, 56 dB, 58 dB, 60 dB, 62 dB
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_BST
 Typical Completion Time:100 ms

Name:Average Readings
 Tag:TETRA_BST:Averaging
 Commands:GET, SET
 Data Type:INTEGER
 Range: 1 to 100
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_BST

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 125 OF 172	

Typical Completion Time:100 ms

Name:Cable Offset (dB)
 Tag:TETRA_BST:RF In/Out Offset
 Commands:GET, SET
 Data Type:FLOAT
 Range: -99 to 99
 Availability:
 Menu:TETRA_BST
 Typical Completion Time:100 ms


Name:Gen Offset (dB)
 Tag:TETRA_BST:RF Gen Out Offset
 Commands:GET, SET
 Data Type:FLOAT
 Range: -99 to 99
 Availability:
 Menu:TETRA_BST
 Typical Completion Time:100 ms

Name:
 Tag:TETRA_BST:RF Power
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_BST
 Typical Completion Time:100 ms

Name:
 Tag:TETRA_BST:Residual Power
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_BST
 Typical Completion Time:100 ms

Name:
 Tag:TETRA_BST:Freq Error
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_BST
 Typical Completion Time:100 ms

Name:
 Tag:TETRA_BST:EVM RMS
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_BST
 Typical Completion Time:100 ms

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 126 OF 172	

Name:

Tag:TETRA_BST:EVM Peak

Commands:GET

Data Type:FLOAT

Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_BST

Typical Completion Time:100 ms

Name:Uplink Signal Mode

Tag:TETRA_BST:Uplink Signal Mode

Commands:GET, SET

Data Type:LIST

List Values: Auto, TX On, Transmit, Receive, Loopback, Manual Transmit, Manual Receive, Manual Loopback, Downlink T2 (No Scrambling)

Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_BST

Typical Completion Time:500 ms

Name:Uplink Signal Type

Tag:TETRA_BST:Uplink Signal Type

Commands:GET, SET

Data Type:LIST

List Values: Auto, TCH/7.2, SCH/F, STCH+STCH, SCH/HU+SCH/HU, TCH/S, TCH/2.4 N=1, TCH/4.8 N=1

Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_BST

Typical Completion Time:500 ms

Name:RF Output Level (dBm)

Tag:TETRA_BST:RF Output Level

Commands:GET, SET

Data Type:FLOAT

Range: -130 to -30

Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_BST

Typical Completion Time:1000 ms

Name:Codec Tones

Tag:TETRA_BST:Codec Tones

Commands:GET, SET

Data Type:LIST

List Values: 400 Hz, 800 Hz, 1000 Hz, 1600 Hz, 2400 Hz

Availability:

Operating Mode:Monitor, Duplex


Menu:TETRA_BST

Typical Completion Time:100 ms

Name:

Tag:TETRA_BST:D11MNC

Commands:GET

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 127 OF 172	

Data Type:INTEGER

Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_BST

Typical Completion Time:100 ms

Name:

Tag:TETRA_BST:D11MCC

Commands:GET

Data Type:INTEGER

Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_BST

Typical Completion Time:100 ms

Name:

Tag:TETRA_BST:D11BCC

Commands:GET

Data Type:INTEGER

Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_BST

Typical Completion Time:100 ms

Name:

Tag:TETRA_BST:D11LA

Commands:GET

Data Type:INTEGER

Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_BST

Typical Completion Time:100 ms

Name:

Tag:TETRA_BST:Downlink BER

Commands:GET

Data Type:STRING

Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_BST

Typical Completion Time:100 ms

Name:

Tag:TETRA_BST:Downlink MBR

Commands:GET

Data Type:STRING

Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_BST

Typical Completion Time:100 ms

Name:

Tag:TETRA_BST:Uplink BER

Commands:GET

Data Type:STRING

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 128 OF 172	

Availability:

Operating Mode:Monitor, Duplex
Menu:TETRA_BST

Typical Completion Time:100 ms

Name:

Tag:TETRA_BST:Uplink MER

Commands:GET

Data Type:STRING

Availability:

Operating Mode:Monitor, Duplex
Menu:TETRA_BST

Typical Completion Time:100 ms

Name:Gen Port

Tag:TETRA_BST:Generate Port

Commands:GET, SET

Data Type:BOOLEAN

List Values: RF In/Out, Gen Out

Availability:

Operating Mode:Duplex
Menu:TETRA_BST

Typical Completion Time:1000 ms

Name:Monitor Port

Tag:TETRA_BST:Monitor Port

Commands:GET, SET

Data Type:BOOLEAN

List Values: RF In/Out, Antenna

Availability:

Operating Mode:Monitor, Duplex
Menu:TETRA_BST

Typical Completion Time:1000 ms

Name:Pre-Amp

Tag:TETRA_BST:PreAmp On

Commands:GET, SET

Data Type:BOOLEAN

List Values: Off, On

Availability:

Operating Mode:Monitor, Duplex
Menu:TETRA_BST

Typical Completion Time:1000 ms

Name:Sync

Tag:TETRA_BST:Sync

Commands:DO

Data Type:FUNCTION


Availability:

Operating Mode:Monitor, Duplex
Menu:TETRA_BST

Typical Completion Time:5000 ms

Name:Bar Charts

Tag:TETRA_BST:Bar Charts

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 129 OF 172	

Commands:DO

Data Type:FUNCTION

Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_BST

Typical Completion Time:100 ms

Name:Spectrum

Tag:TETRA_BST:Spectrum

Commands:DO

Data Type:FUNCTION

Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_BST

Typical Completion Time:100 ms

Name:Power Profile

Tag:TETRA_BST:Power Profile

Commands:DO

Data Type:FUNCTION

Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_BST

Typical Completion Time:100 ms

Name:Constellation

Tag:TETRA_BST:Constellation

Commands:DO

Data Type:FUNCTION

Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_BST

Typical Completion Time:100 ms

Name:Upper Mini Graph

Tag:TETRA_BST:UpperGraph

Commands:GET, SET

Data Type:LIST

List Values: Spectrum, Power Profile, Symbols, Trajectories

Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_BST

Typical Completion Time:100 ms

Name:Lower Mini Graph

Tag:TETRA_BST:LowerGraph

Commands:GET, SET

Data Type:LIST

List Values: Spectrum, Power Profile, Symbols, Trajectories, Bar Graphs


Availability:

Operating Mode:Monitor, Duplex

Menu:TETRA_BST

Typical Completion Time:100 ms

Name:Channel

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 130 OF 172	

Tag:TETRA_BST:Channel
 Commands:GET, SET
 Data Type:INTEGER
 Range: 0 to 40000
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_BST
 Typical Completion Time:100 ms


Name:Band
 Tag:TETRA_BST:Band
 Commands:GET, SET
 Data Type:LIST
 List Values: 100 MHz, 300 MHz, 400 MHz, 450 MHz, 800 MHz, 900 MHz
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_BST
 Typical Completion Time:100 ms

Name:Channel Offset
 Tag:TETRA_BST:Channel Offset
 Commands:GET, SET
 Data Type:LIST
 List Values: 0 Hz, 6.250 kHz, -6.25 kHz, 12.500 kHz, -12.500 kHz
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_BST
 Typical Completion Time:100 ms

Name:Duplex Offset
 Tag:TETRA_BST:Duplex Offset
 Commands:GET, SET
 Data Type:LIST
 List Values: 1.6 MHz [TETRA_BST:Band=100 MHz], 4.5 MHz [TETRA_BST:Band=100 MHz], 5 MHz [TETRA_BST:Band=400 MHz or TETRA_BST:Band=450 MHz], 10 MHz [TETRA_BST:Band=300 MHz or TETRA_BST:Band=400 MHz or TETRA_BST:Band=450 MHz], 45 MHz [TETRA_BST:Band=800 MHz or TETRA_BST:Band=900 MHz]
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_BST
 Typical Completion Time:100 ms

Name:Operating Mode
 Tag:TETRA_BST:Operating Mode
 Commands:GET, SET
 Data Type:LIST
 List Values: Normal, Reverse
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_BST
 Typical Completion Time:100 ms

Name:MCC
 Tag:TETRA_BST:MCC
 Commands:GET, SET

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 131 OF 172	

Data Type:INTEGER
 Range: 0 to 500
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_BST
 Typical Completion Time:100 ms

Name:MNC
 Tag:TETRA_BST:MNC
 Commands:GET, SET
 Data Type:INTEGER
 Range: 0 to 10000
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_BST
 Typical Completion Time:100 ms


Name:BCC
 Tag:TETRA_BST:BCC
 Commands:GET, SET
 Data Type:INTEGER
 Range: 0 to 10
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_BST
 Typical Completion Time:100 ms

Name:Limits Default
 Tag:TETRA_BST:Limits Default
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_BST
 Typical Completion Time:1000 ms

Name:RF Power Lower Limit
 Tag:TETRA_BST:RFPLLLimit
 Commands:GET, SET
 Data Type:INTEGER
 Range: 0 to 200
 Availability:
 Menu:TETRA_BST
 Typical Completion Time:100 ms

Name:RF Power Upper Limit
 Tag:TETRA_BST:RFPLULimit
 Commands:GET, SET
 Data Type:INTEGER
 Range: 0 to 200
 Availability:
 Menu:TETRA_BST
 Typical Completion Time:100 ms

Name:Residual Carrier Power

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 132 OF 172	

Tag:TETRA_BST:Residual Carrier Power
 Commands:GET, SET
 Data Type:INTEGER
 Range: 0 to 10
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_BST
 Typical Completion Time:100 ms


Name:Frequency Error
 Tag:TETRA_BST:Frequency Error
 Commands:GET, SET
 Data Type:INTEGER
 Range: 0 to 200
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_BST
 Typical Completion Time:100 ms

Name:RMS Vector
 Tag:TETRA_BST:RMS Vector
 Commands:GET, SET
 Data Type:INTEGER
 Range: 0 to 50
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_BST
 Typical Completion Time:100 ms

Name:Peak Vector
 Tag:TETRA_BST:Peak Vector
 Commands:GET, SET
 Data Type:INTEGER
 Range: 0 to 50
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_BST
 Typical Completion Time:100 ms

Name:Uplink BER
 Tag:TETRA_BST:UplinkBERLimit
 Commands:GET, SET
 Data Type:FLOAT
 Range: 0 to 10
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:TETRA_BST
 Typical Completion Time:100 ms

Name:Uplink MER
 Tag:TETRA_BST:UplinkMERLimit
 Commands:GET, SET
 Data Type:FLOAT
 Range: 0 to 10
 Availability:

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 133 OF 172	

Operating Mode:Monitor, Duplex
 Menu:TETRA_BST
 Typical Completion Time:100 ms

Name:Downlink BER
 Tag:TETRA_BST:DownlinkBERLimit
 Commands:GET, SET
 Data Type:FLOAT
 Range: 0 to 10
 Availability:

Operating Mode:Monitor, Duplex
 Menu:TETRA_BST
 Typical Completion Time:100 ms

Name:Downlink MBR
 Tag:TETRA_BST:DownlinkMBRLimit
 Commands:GET, SET
 Data Type:FLOAT
 Range: 0 to 10
 Availability:

Operating Mode:Monitor, Duplex
 Menu:TETRA_BST
 Typical Completion Time:100 ms

Name:Burst Samples
 Tag:TETRA_BST:Burst Samples
 Commands:GET, SET
 Data Type:INTEGER
 Range: 1 to 1000000
 Availability:

Operating Mode:Monitor, Duplex
 Menu:TETRA_BST
 Typical Completion Time:100 ms


Name:Start Test
 Tag:TETRA_BST:Start TX Test
 Commands:DO
 Data Type:FUNCTION
 Availability:

Operating Mode:Monitor, Duplex
 Menu:TETRA_BST
 Typical Completion Time:100 ms

Name:TETRA BSM Library Version
 Tag:TETRA_BST:Version
 Commands:GET
 Data Type:STRING
 Availability:

Menu:TETRA_BST
 Typical Completion Time:0 ms

Name:TETRA BST1 Library Version
 Tag:TETRA_BST:Version1
 Commands:GET
 Data Type:STRING

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 134 OF 172	

Availability:

Menu:TETRA_BST
 Typical Completion Time:0 ms

Name:

Tag:OPTIONS:Enabled
 Commands:GET
 Data Type:STRING
 Typical Completion Time:0 ms

Name:Synth Mode

Tag:POCSAG:Synth Mode
 Commands:GET, SET
 Data Type:LIST
 List Values: Off, Continuous, Burst [AUDIO:Format=A/B Sequence or
 AUDIO:Format=5/6 Tone or AUDIO:Format=POCSAG or AUDIO:Format=General
 Sequence], Disconnect Tone [AUDIO:Format=DPL or AUDIO:Format=DPL Invert]

Availability:

Operating Mode:Monitor, Generate, Duplex
 Menu:POCSAG
 Typical Completion Time:500 ms

Name:Capcode

Tag:POCSAG:Capcode
 Commands:GET, SET
 Data Type:STRING
 char set:0, 1, 2, 3, 4, 5, 6, 7, 8, 9

Availability:

Operating Mode:Monitor, Generate, Duplex
 Menu:POCSAG
 Typical Completion Time:100 ms

Name:Function Bits

Tag:POCSAG:Function Bits
 Commands:GET, SET
 Data Type:LIST
 List Values: 00, 01, 10, 11

Availability:

Operating Mode:Monitor, Generate, Duplex
 Menu:POCSAG
 Typical Completion Time:100 ms

Name:POCSAG Message


Tag:POCSAG:POCSAG Message
 Commands:GET, SET
 Data Type:LIST
 List Values: Tone Only, NumericNum, NumericSet, AlphaNumUC, AlphaNumLC,
 AlphaNumSP, NumericCust, AlphaNumCust

Availability:

Operating Mode:Monitor, Generate, Duplex
 Menu:POCSAG
 Typical Completion Time:100 ms

Name>Edit Message

Tag:POCSAG:NumericCust Message

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 135 OF 172	

Commands:GET, SET
 Data Type:STRING
 Format:(POCSAGCustom)
 char set:0, 1, 2, 3, 4, 5, 6, 7, 8, 9, U, , -,], [
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:POCSAG
 Typical Completion Time:100 ms


Name:Edit Message
 Tag:POCSAG:AlphaNumCust Message
 Commands:GET, SET
 Data Type:STRING
 Format:(POCSAGCustom)
 char set:!, ", #, \$, %, ', (,), *, +, -, ., /, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9,
 , :, ;, <, =, >, ?, @, A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R,
 S, T, U, V, W, X, Y, Z,], \, [, ^, _ , ` , a, b, c, d, e, f, g, h, i, j, k, l,
 m, n, o, p, q, r, s, t, u, v, w, x, y, z, {,
 , }, ~
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:POCSAG
 Typical Completion Time:100 ms

Name:Message Length
 Tag:POCSAG:Message Length
 Commands:GET, SET
 Data Type:INTEGER
 Range: 0 to 60
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:POCSAG
 Typical Completion Time:100 ms

Name>Data Rate (bps)
 Tag:POCSAG>Data Rate
 Commands:GET, SET
 Data Type:INTEGER
 Range: 400 to 4800
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:POCSAG
 Typical Completion Time:100 ms

Name:Polarity
 Tag:POCSAG:Polarity
 Commands:GET, SET
 Data Type:LIST
 List Values: Normal, Inverted
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:POCSAG
 Typical Completion Time:100 ms

Name>Error Bit

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 136 OF 172	

Tag:POCSAG:Error Bit
 Commands:GET, SET
 Data Type:INTEGER
 Range: 0 to 2200
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:POCSAG
 Typical Completion Time:100 ms

Name:Record Results
 Tag:AUTOSCRIP:Reporting
 Commands:GET, SET
 Data Type:BOOLEAN
 List Values: Off, On
 Availability:
 Menu:AUTOSCRIP
 Typical Completion Time:500 ms

Name:
 Tag:DPMR:BER Result
 Commands:GET
 Data Type:FLOAT
 Range: 0 to 100
 Availability:
 Operating Mode:Monitor
 Menu:DPMR
 Typical Completion Time:0 ms

Name:Symbol Deviation (Hz)
 Tag:DPMR:Symbol Deviation
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Monitor
 Menu:DPMR
 Typical Completion Time:0 ms

Name:
 Tag:DPMR:Modulation Fidelity
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Monitor
 Menu:DPMR
 Typical Completion Time:0 ms

Name:Test Pattern
 Tag:DPMR:Test Pattern
 Commands:GET, SET
 Data Type:LIST
 List Values: Calibration (0.153 2%), 511 (0.153/PN9), Interference [Operating Mode=Generate], Max Freq Deviation [Operating Mode=Generate], 1/3 Freq Deviation [Operating Mode=Generate]
 Availability:
 Operating Mode:Monitor, Generate

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 137 OF 172	

Menu:DPMR
 Typical Completion Time:100 ms

Name:Modulation Mode
 Tag:DPMR:Gen Mod Mode
 Commands:GET, SET
 Data Type:LIST
 List Values: Off, Continuous, Burst
 Availability:
 Operating Mode:Generate
 Menu:DPMR
 Typical Completion Time:500 ms


Name:BER Test
 Tag:DPMR:BER Test
 Commands:GET, SET
 Data Type:LIST
 List Values: Stop, Start
 Availability:
 Operating Mode:Monitor
 Menu:DPMR
 Typical Completion Time:500 ms

Name:Ideal Sym Dev (Hz)
 Tag:DPMR:Ideal Symbol Deviation
 Commands:GET, SET
 Data Type:INTEGER
 Range: 800 to 2400
 Availability:
 Operating Mode:Monitor, Generate
 Menu:DPMR
 Typical Completion Time:100 ms

Name:Filter
 Tag:DPMR:Filter
 Commands:GET, SET
 Data Type:LIST
 List Values: ETSI, PDR
 Availability:
 Operating Mode:Monitor, Generate
 Menu:DPMR
 Typical Completion Time:100 ms

Name:Eye Diagram Data
 Tag:DPMR:Eye Data
 Commands:GET
 Data Type:ARRAY
 Availability:
 Operating Mode:Monitor
 Menu:DPMR
 Typical Completion Time:100 ms

Name:dPMR Library Version
 Tag:DPMR:Version
 Commands:GET

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 138 OF 172	

Data Type:STRING
 Availability:
 Menu:DPMR
 Typical Completion Time:0 ms


Name:
 Tag:P25_II:BER Result
 Commands:GET
 Data Type:FLOAT
 Range: 0 to 100
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:P25_II
 Typical Completion Time:0 ms

Name:Symbol Deviation (Hz)
 Tag:P25_II:Symbol Deviation
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:P25_II
 Typical Completion Time:0 ms

Name:
 Tag:P25_II:Modulation Fidelity
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:P25_II
 Typical Completion Time:0 ms

Name:Symbol Rate Error (mHz)
 Tag:P25_II:Sym Rate Err
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:P25_II
 Typical Completion Time:0 ms

Name:Test Pattern
 Tag:P25_II:Test Pattern
 Commands:GET, SET
 Data Type:LIST
 List Values: 1031 Hz Tone, 1031 Hz Tone Symm [Operating Mode=Monitor and P25_II:Mon Mod Type=HCPM], Calibration (Tone 5%), Silence, High Deviation [Operating Mode=Generate], Low Deviation [Operating Mode=Generate], Interference [Operating Mode=Generate]
 Availability:
 Operating Mode:Monitor, Generate, Duplex
 Menu:P25_II
 Typical Completion Time:100 ms

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 139 OF 172	

Name:Generate Modulation Type
 Tag:P25_II:Modulation Type
 Commands:GET, SET
 Data Type:LIST
 List Values: FM [Test Mode=Standard], AM [Test Mode=Standard], USB [Test Mode=Standard and Option=R8-SSB], LSB [Test Mode=Standard and Option=R8-SSB], 4FSK [Test Mode=DMR or Test Mode=DPMR or Test Mode=NXDN or Test Mode=NXDN Trunk], GMSK~ [Test Mode=PTC-ACSES], C4FM [Test Mode=PROJECT 25 or Test Mode=P25 Trunk], LSM [Test Mode=PROJECT 25 or Test Mode=P25 Trunk], WCQPSK [Test Mode=PROJECT 25 or Test Mode=P25 Trunk], PI/4 DQPSK [Test Mode=PTC-ITCR or Test Mode=TETRA DMO or Test Mode=TETRA TMO or Test Mode=TETRA Base Station], HCPM [Test Mode=P25 II], HDQPSK [Test Mode=P25 II and Operating Mode=Monitor or Test Mode=P25 II and Operating Mode=Generate]
 Availability:

Operating Mode:Generate

Menu:P25_II

Typical Completion Time:100 ms

Name:Monitor Modulation Type
 Tag:P25_II:Mon Mod Type
 Commands:GET, SET
 Data Type:LIST
 List Values: HCPM [Operating Mode=Monitor or Operating Mode=Generate], HDQPSK
 Availability:

Operating Mode:Monitor

Menu:P25_II

Typical Completion Time:100 ms

Name:Modulation Mode
 Tag:P25_II:Gen Mod Mode
 Commands:GET, SET
 Data Type:LIST
 List Values: Off, Continuous, Burst [Operating Mode=Monitor or Operating Mode=Generate]
 Availability:

Operating Mode:Generate, Duplex

Menu:P25_II

Typical Completion Time:500 ms


Name:LCH (logical channel)
 Tag:P25_II:Gen LCH
 Commands:GET, SET
 Data Type:LIST
 List Values: 0, 1
 Availability:

Operating Mode:Generate, Duplex

Menu:P25_II

Typical Completion Time:100 ms

Name:BER Test
 Tag:P25_II:BER Test
 Commands:GET, SET
 Data Type:LIST
 List Values: Stop, Start
 Availability:

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 140 OF 172	

Operating Mode:Monitor, Duplex
 Menu:P25_II
 Typical Completion Time:500 ms

Name:Eye Diagram Data
 Tag:P25_II:Eye Data
 Commands:GET
 Data Type:ARRAY
 Availability:

Operating Mode:Monitor, Duplex
 Menu:P25_II
 Typical Completion Time:100 ms

Name:P25 Phase 2 Library Version
 Tag:P25_II:Version
 Commands:GET
 Data Type:STRING
 Availability:

Menu:P25_II
 Typical Completion Time:0 ms

Name:PTC-ACSES Library Version
 Tag:PTC_ACSES:Version
 Commands:GET
 Data Type:STRING
 Availability:

Menu:PTC_ACSES
 Typical Completion Time:0 ms


Name:Mon Symbol Rate (sps)
 Tag:PTC_ITCR:Mon Sym Rate
 Commands:GET, SET
 Data Type:BOOLEAN
 List Values: 8000, 16000
 Availability:

Operating Mode:Monitor, Duplex
 Menu:PTC_ITCR
 Typical Completion Time:100 ms

Name:Gen Symbol Rate (sps)
 Tag:PTC_ITCR:Gen Sym Rate
 Commands:GET, SET
 Data Type:BOOLEAN
 List Values: 8000, 16000
 Availability:

Operating Mode:Generate, Duplex
 Menu:PTC_ITCR
 Typical Completion Time:100 ms

Name:BER Test
 Tag:PTC_ITCR:BER Test
 Commands:GET, SET
 Data Type:LIST
 List Values: Stop, Start
 Availability:

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 141 OF 172	

Operating Mode:Monitor, Duplex
 Menu:PTC_ITCR
 Typical Completion Time:500 ms

Name:Modulation Mode
 Tag:PTC_ITCR:Gen Mod Mode
 Commands:GET, SET
 Data Type:LIST
 List Values: Off, Continuous
 Availability:

Operating Mode:Generate, Duplex
 Menu:PTC_ITCR
 Typical Completion Time:500 ms

Name:Packet Sync Status
 Tag:PTC_ITCR:Sync
 Commands:GET
 Data Type:BOOLEAN
 List Values:
 Availability:


Operating Mode:Monitor, Duplex
 Menu:PTC_ITCR
 Typical Completion Time:0 ms

Name:
 Tag:PTC_ITCR:BER Result
 Commands:GET
 Data Type:FLOAT
 Range: 0 to 100
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:PTC_ITCR
 Typical Completion Time:0 ms

Name:Average Power (dBm)
 Tag:PTC_ITCR:Average Power
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:PTC_ITCR
 Typical Completion Time:0 ms

Name:Peak Power (dBm)
 Tag:PTC_ITCR:Peak Power
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:Monitor, Duplex
 Menu:PTC_ITCR
 Typical Completion Time:0 ms

Name:EVM (%)
 Tag:PTC_ITCR:EVM
 Commands:GET

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 142 OF 172	

Data Type:FLOAT

Availability:

Operating Mode:Monitor, Duplex

Menu:PTC_ITCR

Typical Completion Time:0 ms

Name:IQ Imbalance (dB)

Tag:PTC_ITCR:IQ Imbalance

Commands:GET

Data Type:FLOAT

Availability:

Operating Mode:Monitor, Duplex

Menu:PTC_ITCR

Typical Completion Time:0 ms

Name:Phase Err (deg)

Tag:PTC_ITCR:Phase Err

Commands:GET

Data Type:FLOAT

Availability:

Operating Mode:Monitor, Duplex

Menu:PTC_ITCR

Typical Completion Time:0 ms

Name:Mag Err (%)

Tag:PTC_ITCR:Mag Err

Commands:GET

Data Type:FLOAT

Availability:

Operating Mode:Monitor, Duplex

Menu:PTC_ITCR

Typical Completion Time:0 ms

Name:

Tag:PTC_ITCR:PAR

Commands:GET

Data Type:FLOAT

Availability:

Operating Mode:Monitor, Duplex

Menu:PTC_ITCR

Typical Completion Time:0 ms

Name:

Tag:PTC_ITCR:Packet Count

Commands:GET

Data Type:INTEGER

Availability:

Operating Mode:Monitor, Duplex

Menu:PTC_ITCR


Typical Completion Time:0 ms

Name:

Tag:PTC_ITCR:Header Resync Count

Commands:GET

Data Type:INTEGER

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 143 OF 172	

Availability:

Operating Mode:Monitor, Duplex
 Menu:PTC_ITCR

Typical Completion Time:0 ms

Name:

Tag:PTC_ITCR>Last Packet Index
 Commands:GET

Data Type:INTEGER

Availability:

Operating Mode:Monitor, Duplex
 Menu:PTC_ITCR

Typical Completion Time:0 ms

Name:Eye Diagram Data

Tag:PTC_ITCR:Eye Data

Commands:GET

Data Type:ARRAY

Availability:

Operating Mode:Monitor, Duplex
 Menu:PTC_ITCR

Typical Completion Time:100 ms

Name:PTC-ITCR Library Version

Tag:PTC_ITCR:Version

Commands:GET

Data Type:STRING

Availability:

Menu:PTC_ITCR

Typical Completion Time:0 ms

Name:Radio/Source ID

Tag:DMR_BS_LIVE:RadioID

Commands:GET, SET

Data Type:INTEGER

Range: 1 to 16777216

Availability:

Operating Mode:Generate, Duplex
 Menu:DMR_BS_LIVE

Typical Completion Time:100 ms

Name:Emergency

Tag:DMR_BS_LIVE:Emergency

Commands:GET, SET

Data Type:BOOLEAN

List Values: Off, On

Availability:

Operating Mode:Generate, Duplex
 Menu:DMR_BS_LIVE


Typical Completion Time:100 ms

Name:Priority

Tag:DMR_BS_LIVE:Priority

Commands:GET, SET

Data Type:LIST

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 144 OF 172	

List Values: 0, 1, 2, 3

Availability:

Operating Mode:Generate, Duplex

Menu:DMR_BS_LIVE

Typical Completion Time:100 ms

Name:Slot#

Tag:DMR_BS_LIVE:Slot

Commands:GET, SET

Data Type:LIST

List Values: 1, 2

Availability:

Operating Mode:Generate, Duplex

Menu:DMR_BS_LIVE

Typical Completion Time:100 ms

Name:Slot to Analyse

Tag:DMR_BS_LIVE:SlotToAnalyse

Commands:GET, SET

Data Type:LIST

List Values: 0, 1, 2

Availability:

Operating Mode:Generate, Duplex

Menu:DMR_BS_LIVE

Typical Completion Time:100 ms

Name:Target/Call Address

Tag:DMR_BS_LIVE:TargetAddress

Commands:GET, SET

Data Type:INTEGER

Range: 0 to 16777215

Availability:

Operating Mode:Generate, Duplex

Menu:DMR_BS_LIVE

Typical Completion Time:100 ms

Name:Reset to Defaults

Tag:DMR_BS_LIVE:BS Live Defaults

Commands:DO

Data Type:FUNCTION

Availability:

Operating Mode:Generate, Duplex

Menu:DMR_BS_LIVE

Typical Completion Time:100 ms

Name:Select Signal

Tag:AVIONICS:Subzone

Commands:GET, SET

Data Type:LIST


List Values: Localizer, Glide Slope, Markers, NDB/ADF, VOR, Selcal

Availability:

Operating Mode:Generate

Menu:AVIONICS


Typical Completion Time:500 ms

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 145 OF 172	

Name:RF Frequency
 Tag:AVIONICS:LocalizerChannel
 Commands:GET, SET
 Data Type:LIST
 List Values: 108.1 MHz, 108.15 MHz, 108.3 MHz, 108.35 MHz, 108.5 MHz, 108.55 MHz, 108.7 MHz, 108.75 MHz, 108.9 MHz, 108.95 MHz, 109.1 MHz, 109.15 MHz, 109.3 MHz, 109.35 MHz, 109.5 MHz, 109.55 MHz, 109.7 MHz, 109.75 MHz, 109.9 MHz, 109.95 MHz, 110.1 MHz, 110.15 MHz, 110.3 MHz, 110.35 MHz, 110.5 MHz, 110.55 MHz, 110.7 MHz, 110.75 MHz, 110.9 MHz, 110.95 MHz, 111.1 MHz, 111.15 MHz, 111.3 MHz, 111.35 MHz, 111.5 MHz, 111.55 MHz, 111.7 MHz, 111.75 MHz, 111.9 MHz, 111.95 MHz
 Availability:
 Operating Mode:Generate
 Menu:AVIONICS:Subzone=Localizer
 Typical Completion Time:0 ms

Name:RF Frequency (kHz)
 Tag:AVIONICS:NDB_Channel
 Commands:GET, SET
 Data Type:FLOAT
 Range: 250 to 1750
 Availability:
 Operating Mode:Generate
 Menu:AVIONICS:Subzone=NDB/ADF
 Typical Completion Time:10000 ms

Name:RF Frequency
 Tag:AVIONICS:VORChannel
 Commands:GET, SET
 Data Type:LIST
 List Values: 108.00 MHz, 108.05 MHz, 108.20 MHz, 108.25 MHz, 108.40 MHz, 108.45 MHz, 108.60 MHz, 108.65 MHz, 108.80 MHz, 108.85 MHz, 109.00 MHz, 109.05 MHz, 109.20 MHz, 109.25 MHz, 109.40 MHz, 109.45 MHz, 109.60 MHz, 109.65 MHz, 109.80 MHz, 109.85 MHz, 110.00 MHz, 110.05 MHz, 110.20 MHz, 110.25 MHz, 110.40 MHz, 110.45 MHz, 110.60 MHz, 110.65 MHz, 110.80 MHz, 110.85 MHz, 111.00 MHz, 111.05 MHz, 111.20 MHz, 111.25 MHz, 111.40 MHz, 111.45 MHz, 111.60 MHz, 111.65 MHz, 111.80 MHz, 111.85 MHz, 112.00 MHz, 112.05 MHz, 112.10 MHz, 112.15 MHz, 112.20 MHz, 112.25 MHz, 112.30 MHz, 112.35 MHz, 112.40 MHz, 112.45 MHz, 112.50 MHz, 112.55 MHz, 112.60 MHz, 112.65 MHz, 112.70 MHz, 112.75 MHz, 112.80 MHz, 112.85 MHz, 112.90 MHz, 112.95 MHz, 113.00 MHz, 113.05 MHz, 113.10 MHz, 113.15 MHz, 113.20 MHz, 113.25 MHz, 113.30 MHz, 113.35 MHz, 113.40 MHz, 113.45 MHz, 113.50 MHz, 113.55 MHz, 113.60 MHz, 113.65 MHz, 113.70 MHz, 113.75 MHz, 113.80 MHz, 113.85 MHz, 113.90 MHz, 113.95 MHz, 114.00 MHz, 114.05 MHz, 114.10 MHz, 114.15 MHz, 114.20 MHz, 114.25 MHz, 114.30 MHz, 114.35 MHz, 114.40 MHz, 114.45 MHz, 114.50 MHz, 114.55 MHz, 114.60 MHz, 114.65 MHz, 114.70 MHz, 114.75 MHz, 114.80 MHz, 114.85 MHz, 114.90 MHz, 114.95 MHz, 115.00 MHz, 115.05 MHz, 115.10 MHz, 115.15 MHz, 115.20 MHz, 115.25 MHz, 115.30 MHz, 115.35 MHz, 115.40 MHz, 115.45 MHz, 115.50 MHz, 115.55 MHz, 115.60 MHz, 115.65 MHz, 115.70 MHz, 115.75 MHz, 115.80 MHz, 115.85 MHz, 115.90 MHz, 115.95 MHz, 116.00 MHz, 116.05 MHz, 116.10 MHz, 116.15 MHz, 116.20 MHz, 116.25 MHz, 116.30 MHz, 116.35 MHz, 116.40 MHz, 116.45 MHz, 116.50 MHz, 116.55 MHz, 116.60 MHz, 116.65 MHz, 116.70 MHz, 116.75 MHz, 116.80 MHz, 116.85 MHz, 116.90 MHz, 116.95 MHz, 117.00 MHz, 117.10 MHz, 117.15 MHz, 117.20 MHz, 117.25 MHz, 117.30 MHz, 117.35 MHz, 117.40 MHz,

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 146 OF 172	

117.45 MHz, 117.50 MHz, 117.55 MHz, 117.60 MHz, 117.65 MHz, 117.70 MHz,
 117.75 MHz, 117.80 MHz, 117.85 MHz, 117.90 MHz, 117.95 MHz,

Availability:

Operating Mode:Generate
 Menu:AVIONICS:Subzone=VOR

Typical Completion Time:1000 ms

Name:RF Frequency (MHz)

Tag:AVIONICS:SELCAL_RF_Channel

Commands:GET, SET

Data Type:FLOAT

Range: 117 to 157

Availability:

Operating Mode:Generate
 Menu:AVIONICS:Subzone=Selcal

Typical Completion Time:10000 ms

Name:Gen Port

Tag:AVIONICS:Generate Port

Commands:GET, SET

Data Type:BOOLEAN

List Values: RF In/Out, Gen Out

Availability:

Operating Mode:Generate
 Menu:AVIONICS

Typical Completion Time:500 ms

Name:150 Hz Tone

Tag:AVIONICS:ILS150Hz

Commands:GET, SET

Data Type:BOOLEAN

List Values: Off, On

Availability:

Operating Mode:Generate
 Menu:AVIONICS:Subzone=Localizer, Glide Slope

Typical Completion Time:1000 ms

Name:90 Hz Tone

Tag:AVIONICS:ILS90Hz

Commands:GET, SET

Data Type:BOOLEAN

List Values: Off, On

Availability:

Operating Mode:Generate
 Menu:AVIONICS:Subzone=Localizer, Glide Slope

Typical Completion Time:1000 ms

Name:SDM (%)

Tag:AVIONICS:SDM_Localizer

Commands:GET, SET

Data Type:FLOAT

Range: 30 to 50

Availability:

Operating Mode:Generate
 Menu:AVIONICS:Subzone=Localizer

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 147 OF 172	

Typical Completion Time:1000 ms

Name:SDM (%)
 Tag:AVIONICS:SDM_Glider
 Commands:GET, SET
 Data Type:FLOAT
 Range: 70 to 90
 Availability:
 Operating Mode:Generate
 Menu:AVIONICS:Subzone=Glide Slope
 Typical Completion Time:1000 ms


Name:DDM (%)
 Tag:AVIONICS:DDM_Localizer
 Commands:GET, SET
 Data Type:FLOAT
 Range: -40 to 40
 Availability:
 Operating Mode:Generate
 Menu:AVIONICS:Subzone=Localizer
 Typical Completion Time:1000 ms

Name:DDM (%)
 Tag:AVIONICS:DDM_Glider
 Commands:GET, SET
 Data Type:FLOAT
 Range: -80 to 80
 Availability:
 Operating Mode:Generate
 Menu:AVIONICS:Subzone=Glide Slope
 Typical Completion Time:1000 ms

Name:DDM Presets
 Tag:AVIONICS:DDMPresetsLocalizer
 Commands:GET, SET
 Data Type:LIST
 List Values: -20.0, -15.5, -9.3, 0, 9.3, 15.5, 20.0
 Availability:
 Operating Mode:Generate
 Menu:AVIONICS:Subzone=Localizer
 Typical Completion Time:1000 ms

Name:DDM Presets
 Tag:AVIONICS:DDMPresetsGlideSlope
 Commands:GET, SET
 Data Type:LIST
 List Values: -40.0, -17.5, -9.1, 0, 4.5, 9.1, 17.5, 40.0
 Availability:
 Operating Mode:Generate
 Menu:AVIONICS:Subzone=Glide Slope
 Typical Completion Time:1000 ms

Name:Flag Test
 Tag:AVIONICS:FlagTest
 Commands:DO

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 148 OF 172	

Data Type:FUNCTION

Availability:

Operating Mode:Generate

Menu:AVIONICS:Subzone=Localizer, Glide Slope

Typical Completion Time:0 ms

Name:Ident On/Off

Tag:AVIONICS:IdentOnOff

Commands:DO

Data Type:FUNCTION

Availability:

Operating Mode:Generate

Menu:AVIONICS:Subzone=Localizer, Glide Slope, VOR

Typical Completion Time:0 ms

Name:AM Modulation Depth (%)

Tag:AVIONICS:NDB_AMDepth

Commands:GET, SET

Data Type:FLOAT

Range: 0 to 100

Availability:

Operating Mode:Generate

Menu:AVIONICS:Subzone=NDB/ADF

Typical Completion Time:50000 ms

Name:Modulation Tone Frequency (Hz)

Tag:AVIONICS:NDB_ModTone

Commands:GET, SET

Data Type:FLOAT

Range: 0 to 2040

Availability:

Operating Mode:Generate

Menu:AVIONICS:Subzone=NDB/ADF

Typical Completion Time:10000 ms

Name:Repeat Cycle

Tag:AVIONICS:NDB_RepeatCycle

Commands:GET, SET

Data Type:BOOLEAN

List Values: Off, On

Availability:

Operating Mode:Generate

Menu:AVIONICS:Subzone=NDB/ADF

Typical Completion Time:1000 ms

Name:Marker Off

Tag:AVIONICS:OffMarker

Commands:DO

Data Type:FUNCTION


Availability:

Operating Mode:Generate

Menu:AVIONICS:Subzone=Markers

Typical Completion Time:1000 ms

Name:Outer Marker

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 149 OF 172	

Tag:AVIONICS:OuterMarker
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:Generate
 Menu:AVIONICS:Subzone=Markers
 Typical Completion Time:1000 ms


Name:Middle Marker
 Tag:AVIONICS:MiddleMarker
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:Generate
 Menu:AVIONICS:Subzone=Markers
 Typical Completion Time:1000 ms

Name:Inner Marker
 Tag:AVIONICS:InnerMarker
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:Generate
 Menu:AVIONICS:Subzone=Markers
 Typical Completion Time:1000 ms

Name:Active Beacon
 Tag:AVIONICS:BeaconChannel
 Commands:GET, SET
 Data Type:INTEGER
 Range: 0 to 3
 Availability:
 Operating Mode:Generate
 Menu:AVIONICS:Subzone=Markers
 Typical Completion Time:1000 ms

Name:AM Modulation Depth
 Tag:AVIONICS:BeaconAmDepth
 Commands:GET, SET
 Data Type:FLOAT
 Range: 0 to 100
 Availability:
 Operating Mode:Generate
 Menu:AVIONICS:Subzone=Markers
 Typical Completion Time:1000 ms

Name:Bearing
 Tag:AVIONICS:Bearing
 Commands:GET, SET
 Data Type:FLOAT
 Range: -360 to 360
 Availability:
 Operating Mode:Generate
 Menu:AVIONICS:Subzone=VOR
 Typical Completion Time:1000 ms

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 150 OF 172	

Name: Bearing Slew Off/On
 Tag: AVIONICS: BearingSlew
 Commands: DO
 Data Type: FUNCTION
 Availability:
 Operating Mode: Generate
 Menu: AVIONICS: Subzone=VOR
 Typical Completion Time: 0 ms


Name: Bearing Slew Slow/Fast
 Tag: AVIONICS: BearingSlewRate
 Commands: DO
 Data Type: FUNCTION
 Availability:
 Operating Mode: Generate
 Menu: AVIONICS: Subzone=VOR
 Typical Completion Time: 0 ms

Name: To/From
 Tag: AVIONICS: ToFromFlag
 Commands: DO
 Data Type: FUNCTION
 Availability:
 Operating Mode: Generate
 Menu: AVIONICS: Subzone=VOR
 Typical Completion Time: 1000 ms

Name: VAR On/Off
 Tag: AVIONICS: 30HzVariableOnOff
 Commands: DO
 Data Type: FUNCTION
 Availability:
 Operating Mode: Generate
 Menu: AVIONICS: Subzone=VOR
 Typical Completion Time: 1000 ms

Name: REF Off/UnMod/On
 Tag: AVIONICS: VORRefEnable
 Commands: GET, SET
 Data Type: LIST
 List Values: Off, Un-Modulated, On
 Availability:
 Operating Mode: Generate
 Menu: AVIONICS: Subzone=VOR
 Typical Completion Time: 1000 ms

Name: VAR Frequency (Hz)
 Tag: AVIONICS: 30HzVariableFreq
 Commands: GET, SET
 Data Type: FLOAT
 Range: 0 to 40
 Availability:
 Operating Mode: Generate
 Menu: AVIONICS: Subzone=VOR

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 151 OF 172	

Typical Completion Time:0 ms

Name:VAR AM Modulation Depth
 Tag:AVIONICS:30HzVariableDepth
 Commands:GET, SET
 Data Type:FLOAT
 Range: 0 to 40
 Availability:
 Operating Mode:Generate
 Menu:AVIONICS:Subzone=VOR
 Typical Completion Time:0 ms


Name:REF Frequency
 Tag:AVIONICS:30HzRefFreq
 Commands:GET, SET
 Data Type:FLOAT
 Range: 0 to 40
 Availability:
 Operating Mode:Generate
 Menu:AVIONICS:Subzone=VOR
 Typical Completion Time:1000 ms

Name:REF FM Sub Carrier Frequency
 Tag:AVIONICS:SubCarrierFreq
 Commands:GET, SET
 Data Type:FLOAT
 Range: 8964 to 10956
 Availability:
 Operating Mode:Generate
 Menu:AVIONICS:Subzone=VOR
 Typical Completion Time:1000 ms

Name:REF FM Deviation
 Tag:AVIONICS:30HzRefDeviation
 Commands:GET, SET
 Data Type:FLOAT
 Range: 0 to 500
 Availability:
 Operating Mode:Generate
 Menu:AVIONICS:Subzone=VOR
 Typical Completion Time:1000 ms

Name:REF AM Modulation Depth
 Tag:AVIONICS:SubCarrierDepth
 Commands:GET, SET
 Data Type:FLOAT
 Range: 20 to 40
 Availability:
 Operating Mode:Generate
 Menu:AVIONICS:Subzone=VOR
 Typical Completion Time:1000 ms

Name:AM Modulation Depth (%)
 Tag:AVIONICS:Selcal_AMDepth
 Commands:GET, SET

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 152 OF 172	

Data Type:FLOAT
 Range: 0 to 100
 Availability:
 Operating Mode:Generate
 Menu:AVIONICS:Subzone=Selcal
 Typical Completion Time:50000 ms

Name:AVIONICS Library Version
 Tag:AVIONICS:Version
 Commands:GET
 Data Type:STRING
 Availability:
 Menu:AVIONICS
 Typical Completion Time:0 ms


Name:
 Tag:CABLE_SWEEP:Subzone
 Commands:GET
 Data Type:LIST
 List Values: Table, Two Points, Multiple Points
 Availability:
 Menu:CABLE_SWEEP
 Typical Completion Time:100 ms

Name:
 Tag:CABLE_SWEEP:Cable Sweep Files
 Commands:GET, SET
 Data Type:LIST
 List Values:
 Availability:
 Menu:CABLE_SWEEP:Subzone=Table
 Typical Completion Time:0 ms

Name:Enable
 Tag:CABLE_SWEEP:Cable Sweep State
 Commands:GET, SET
 Data Type:BOOLEAN
 List Values: Off, On
 Availability:
 Menu:CABLE_SWEEP:Subzone=Table
 Typical Completion Time:100 ms

Name:
 Tag:CABLE_SWEEP:Data
 Commands:GET
 Data Type:ARRAY
 Availability:
 Menu:CABLE_SWEEP
 Typical Completion Time:0 ms

Name:
 Tag:CABLE_SWEEP:RF In/Out Sweep Data
 Commands:GET
 Data Type:ARRAY
 Availability:

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 153 OF 172	

Menu:CABLE_SWEEP
 Typical Completion Time:0 ms

Name:
 Tag:CABLE_SWEEP:RF Gen Out Sweep Data
 Commands:GET
 Data Type:ARRAY
 Availability:

Menu:CABLE_SWEEP
 Typical Completion Time:0 ms

Name:
 Tag:CABLE_SWEEP:Antenna Sweep Data
 Commands:GET
 Data Type:ARRAY
 Availability:

Menu:CABLE_SWEEP
 Typical Completion Time:0 ms

Name:
 Tag:CABLE_SWEEP:Timestamp
 Commands:GET
 Data Type:STRING
 Availability:


Menu:CABLE_SWEEP
 Typical Completion Time:0 ms

Name:100MHz Loss (dB)
 Tag:CABLE_SWEEP:100MHz Point
 Commands:GET, SET
 Data Type:FLOAT
 Range: -99 to 0
 Availability:
 Menu:CABLE_SWEEP:Subzone=Two Points
 Typical Completion Time:0 ms

Name:1GHz Loss (dB)
 Tag:CABLE_SWEEP:1GHz Point
 Commands:GET, SET
 Data Type:FLOAT
 Range: -99 to 0
 Availability:
 Menu:CABLE_SWEEP:Subzone=Two Points
 Typical Completion Time:0 ms

Name:100MHz Loss (dB)
 Tag:CABLE_SWEEP:RF In/Out Sweep 100MHz Point
 Commands:GET, SET
 Data Type:FLOAT
 Range: -99 to 0
 Availability:
 Menu:CABLE_SWEEP:Subzone=Two Points
 Typical Completion Time:0 ms

Name:1GHz Loss (dB)

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 154 OF 172	

Tag:CABLE_SWEEP:RF In/Out Sweep 1GHz Point
 Commands:GET, SET
 Data Type:FLOAT
 Range: -99 to 0
 Availability:
 Menu:CABLE_SWEEP:Subzone=Two Points
 Typical Completion Time:0 ms

Name:100MHz Loss (dB)
 Tag:CABLE_SWEEP:RF Gen Out Sweep 100MHz Point
 Commands:GET, SET
 Data Type:FLOAT
 Range: -99 to 0
 Availability:
 Menu:CABLE_SWEEP:Subzone=Two Points
 Typical Completion Time:0 ms


Name:1GHz Loss (dB)
 Tag:CABLE_SWEEP:RF Gen Out Sweep 1GHz Point
 Commands:GET, SET
 Data Type:FLOAT
 Range: -99 to 0
 Availability:
 Menu:CABLE_SWEEP:Subzone=Two Points
 Typical Completion Time:0 ms

Name:100MHz Loss (dB)
 Tag:CABLE_SWEEP:Antenna Sweep 100MHz Point
 Commands:GET, SET
 Data Type:FLOAT
 Range: -99 to 0
 Availability:
 Menu:CABLE_SWEEP:Subzone=Two Points
 Typical Completion Time:0 ms

Name:1GHz Loss (dB)
 Tag:CABLE_SWEEP:Antenna Sweep 1GHz Point
 Commands:GET, SET
 Data Type:FLOAT
 Range: -99 to 0
 Availability:
 Menu:CABLE_SWEEP:Subzone=Two Points
 Typical Completion Time:0 ms

Name:Save File As
 Tag:CABLE_SWEEP:Save
 Commands:GET, SET
 Data Type:STRING
 char set:0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, , ., _, (,)
 Availability:
 Menu:CABLE_SWEEP:Subzone=Two Points, Multiple Points
 Typical Completion Time:100 ms

Name:Select Display

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 155 OF 172	

Tag:VNA:Subzone
 Commands:GET, SET
 Data Type:LIST
 List Values: Return Loss/VSWR, Distance To Fault, Smith Chart
 Availability:
 Operating Mode:VNA
 Menu:VNA
 Typical Completion Time:100 ms

Name:Calibration
 Tag:VNA:VNA_CAL
 Commands:GO
 Data Type:SUBMENU
 Availability:
 Operating Mode:VNA
 Menu:VNA
 Typical Completion Time:100 ms


Name:Frequency
 Tag:VNA:VNA_FREQ
 Commands:GO
 Data Type:SUBMENU
 Availability:
 Operating Mode:VNA
 Menu:VNA:Subzone=Return Loss/VSWR, Smith Chart
 Typical Completion Time:100 ms

Name:Distance
 Tag:VNA:VNA_DIST
 Commands:GO
 Data Type:SUBMENU
 Availability:
 Operating Mode:VNA
 Menu:VNA:Subzone=Distance To Fault
 Typical Completion Time:100 ms

Name:Measure
 Tag:VNA:VNA_MEAS
 Commands:GO
 Data Type:SUBMENU
 Availability:
 Operating Mode:VNA
 Menu:VNA
 Typical Completion Time:100 ms

Name:Scale
 Tag:VNA:VNA_SCALE
 Commands:GO
 Data Type:SUBMENU
 Availability:
 Operating Mode:VNA
 Menu:VNA:Subzone=Return Loss/VSWR, Distance To Fault
 Typical Completion Time:100 ms

Name:Trace

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 156 OF 172	

Tag:VNA:VNA_TRACE
 Commands:GO
 Data Type:SUBMENU
 Availability:
 Operating Mode:VNA
 Menu:VNA:Subzone=Return Loss/VSWR, Distance To Fault
 Typical Completion Time:100 ms

Name:Marker
 Tag:VNA:VNA_MARKER
 Commands:GO
 Data Type:SUBMENU
 Availability:
 Operating Mode:VNA
 Menu:VNA:Subzone=Return Loss/VSWR, Distance To Fault
 Typical Completion Time:100 ms


Name:Cable List
 Tag:VNA:VNA_CABLE
 Commands:GO
 Data Type:SUBMENU
 Availability:
 Operating Mode:VNA
 Menu:VNA:Subzone=Distance To Fault
 Typical Completion Time:100 ms

Name:Files
 Tag:VNA:VNA_FILE
 Commands:GO
 Data Type:SUBMENU
 Availability:
 Operating Mode:VNA
 Menu:VNA:Subzone=Return Loss/VSWR, Distance To Fault
 Typical Completion Time:100 ms

Name:
 Tag:VNA:Temperature
 Commands:GET
 Data Type:FLOAT
 Availability:
 Operating Mode:VNA
 Menu:VNA
 Typical Completion Time:100 ms

Name:Frequency Samples
 Tag:VNA:Frequency Data
 Commands:GET
 Data Type:ARRAY
 Availability:
 Operating Mode:VNA
 Menu:VNA
 Typical Completion Time:100 ms

Name:Return Loss Samples
 Tag:VNA:Return Loss Data

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 157 OF 172	

Commands:GET
 Data Type:ARRAY
 Availability:
 Operating Mode:VNA
 Menu:VNA:Subzone=Return Loss/VSWR
 Typical Completion Time:100 ms

Name:Return Loss Memory
 Tag:VNA:RL Memory
 Commands:GET
 Data Type:ARRAY
 Availability:
 Operating Mode:VNA
 Menu:VNA
 Typical Completion Time:100 ms


Name:RL X-Axis Memory (Hz)
 Tag:VNA:RL X Memory
 Commands:GET
 Data Type:ARRAY
 Availability:
 Operating Mode:VNA
 Menu:VNA
 Typical Completion Time:100 ms

Name:VSWR Samples
 Tag:VNA:VSWR Data
 Commands:GET
 Data Type:ARRAY
 Availability:
 Operating Mode:VNA
 Menu:VNA:Subzone=Return Loss/VSWR
 Typical Completion Time:100 ms

Name:VSWR Memory
 Tag:VNA:VSWR Memory
 Commands:GET
 Data Type:ARRAY
 Availability:
 Operating Mode:VNA
 Menu:VNA
 Typical Completion Time:100 ms

Name:VSWR X Memory (Hz)
 Tag:VNA:VSWR X Memory
 Commands:GET
 Data Type:ARRAY
 Availability:
 Operating Mode:VNA
 Menu:VNA
 Typical Completion Time:100 ms

Name:Distance Points
 Tag:VNA:Distance Points
 Commands:GET

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 158 OF 172	

Data Type:ARRAY

Availability:

Operating Mode:VNA

Menu:VNA

Typical Completion Time:100 ms

Name:DTF Samples

Tag:VNA:DTF Data

Commands:GET

Data Type:ARRAY

Availability:

Operating Mode:VNA

Menu:VNA:Subzone=Distance To Fault

Typical Completion Time:100 ms

Name:DTF Memory

Tag:VNA:DTF Memory

Commands:GET

Data Type:ARRAY

Availability:

Operating Mode:VNA

Menu:VNA

Typical Completion Time:100 ms

Name:Distance Memory

Tag:VNA:Distance Memory

Commands:GET

Data Type:ARRAY

Availability:

Operating Mode:VNA

Menu:VNA

Typical Completion Time:100 ms

Name:Smith Chart Samples

Tag:VNA:Smith Data

Commands:GET

Data Type:ARRAY

Availability:

Operating Mode:VNA

Menu:VNA:Subzone=Smith Chart

Typical Completion Time:100 ms

Name:VNA Firmware Version

Tag:VNA:Version

Commands:GET

Data Type:STRING

Availability:

Menu:VNA

Typical Completion Time:100 ms


Name:Calibration Kit

Tag:VNA_CAL:VNA_CAL_KIT

Commands:GO

Data Type:SUBMENU

Availability:

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 159 OF 172	

Operating Mode:VNA
 Menu:VNA_CAL
 Typical Completion Time:100 ms


Name:Start Frequency
 Tag:VNA_FREQ:Start Frequency
 Commands:GET, SET
 Data Type:FLOAT
 Range: 1000000 Hz to 6000000000 Hz
 Units: Hz, kHz, MHz, GHz
 Availability:
 Operating Mode:VNA
 Menu:VNA_FREQ
 Typical Completion Time:100 ms

Name:Stop Frequency
 Tag:VNA_FREQ:Stop Frequency
 Commands:GET, SET
 Data Type:FLOAT
 Range: 1000000 Hz to 6000000000 Hz
 Units: Hz, kHz, MHz, GHz
 Availability:
 Operating Mode:VNA
 Menu:VNA_FREQ
 Typical Completion Time:100 ms

Name:Center Frequency
 Tag:VNA_FREQ:Center Frequency
 Commands:GET, SET
 Data Type:FLOAT
 Range: 1000000 Hz to 6000000000 Hz
 Units: Hz, kHz, MHz, GHz
 Availability:
 Operating Mode:VNA
 Menu:VNA_FREQ
 Typical Completion Time:100 ms

Name:Span
 Tag:VNA_FREQ:Span
 Commands:GET, SET
 Data Type:FLOAT
 Range: 4000 Hz to 5999000000 Hz
 Units: Hz, kHz, MHz, GHz
 Availability:
 Operating Mode:VNA
 Menu:VNA_FREQ
 Typical Completion Time:100 ms

Name:Maximum Length
 Tag:VNA_DIST:Maximum Length
 Commands:GET, SET
 Data Type:FLOAT
 Range: 0 m to 1000 m
 Units: m, ft
 Availability:

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 160 OF 172	

Operating Mode:VNA
 Menu:VNA_DIST
 Typical Completion Time:100 ms

Name:Start Distance
 Tag:VNA_DIST:Start Distance
 Commands:GET, SET
 Data Type:FLOAT
 Range: -10 m to 1000 m
 Units: m, ft
 Availability:

Operating Mode:VNA
 Menu:VNA_DIST
 Typical Completion Time:100 ms

Name:Stop Distance
 Tag:VNA_DIST:Stop Distance
 Commands:GET, SET
 Data Type:FLOAT
 Range: -10 m to 1000 m
 Units: m, ft
 Availability:

Operating Mode:VNA
 Menu:VNA_DIST
 Typical Completion Time:100 ms


Name:Start Frequency
 Tag:VNA_DIST:Start Frequency
 Commands:GET
 Data Type:FLOAT
 Range: 1000000 Hz to 6000000000 Hz
 Units: Hz, kHz, MHz, GHz
 Availability:

Operating Mode:VNA
 Menu:VNA_DIST
 Typical Completion Time:100 ms

Name:Stop Frequency
 Tag:VNA_DIST:Stop Frequency
 Commands:GET
 Data Type:FLOAT
 Range: 1000000 Hz to 6000000000 Hz
 Units: Hz, kHz, MHz, GHz
 Availability:

Operating Mode:VNA
 Menu:VNA_DIST
 Typical Completion Time:100 ms

Name:Center Frequency
 Tag:VNA_DIST:Center Frequency
 Commands:GET, SET
 Data Type:FLOAT
 Range: 1000000 Hz to 6000000000 Hz
 Units: Hz, kHz, MHz, GHz
 Availability:

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 161 OF 172	

Operating Mode:VNA
 Menu:VNA_DIST
 Typical Completion Time:100 ms


Name:Span
 Tag:VNA_DIST:Span
 Commands:GET
 Data Type:FLOAT
 Range: 4000 Hz to 5999000000 Hz
 Units: Hz, kHz, MHz, GHz
 Availability:
 Operating Mode:VNA
 Menu:VNA_DIST
 Typical Completion Time:100 ms

Name:Distance Units
 Tag:VNA_DIST:DTF X-Axis
 Commands:GET, SET
 Data Type:BOOLEAN
 List Values: m, ft
 Availability:
 Operating Mode:VNA
 Menu:VNA_DIST
 Typical Completion Time:100 ms

Name:Response Type
 Tag:VNA_MEAS:DTF Response
 Commands:GET, SET
 Data Type:LIST
 List Values: Bandpass, Lowpass Impulse, Lowpass Step
 Availability:
 Operating Mode:VNA
 Menu:VNA_MEAS
 Typical Completion Time:100 ms

Name:# of Points
 Tag:VNA_MEAS:Points
 Commands:GET, SET
 Data Type:INTEGER
 Range: 101 to 10001
 Availability:
 Operating Mode:VNA
 Menu:VNA_MEAS
 Typical Completion Time:100 ms

Name:IFBW
 Tag:VNA_MEAS:IFBW
 Commands:GET, SET
 Data Type:LIST
 List Values: 10Hz, 30Hz, 100Hz, 300Hz, 1kHz, 3kHz, 10kHz, 30kHz, 100kHz
 Availability:
 Operating Mode:VNA
 Menu:VNA_MEAS
 Typical Completion Time:100 ms

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 162 OF 172	

Name:Trigger Mode
 Tag:VNA_MEAS:Trigger Mode
 Commands:GET, SET
 Data Type:LIST
 List Values: Freeze, Single, Auto
 Availability:
 Operating Mode:VNA
 Menu:VNA_MEAS
 Typical Completion Time:100 ms


Name:Output Level
 Tag:VNA_MEAS:Output Level
 Commands:GET, SET
 Data Type:BOOLEAN
 List Values: High, Low
 Availability:
 Operating Mode:VNA
 Menu:VNA_MEAS
 Typical Completion Time:100 ms

Name:Averaging
 Tag:VNA_MEAS:Averaging
 Commands:GET, SET
 Data Type:BOOLEAN
 List Values: Off, On
 Availability:
 Operating Mode:VNA
 Menu:VNA_MEAS
 Typical Completion Time:100 ms

Name:Averaging Factor
 Tag:VNA_MEAS:Average Factor
 Commands:GET, SET
 Data Type:INTEGER
 Range: 1 to 999
 Availability:
 Operating Mode:VNA
 Menu:VNA_MEAS
 Typical Completion Time:100 ms

Name:Smoothing
 Tag:VNA_MEAS:Smoothing
 Commands:GET, SET
 Data Type:BOOLEAN
 List Values: Off, On
 Availability:
 Operating Mode:VNA
 Menu:VNA_MEAS
 Typical Completion Time:100 ms

Name:Smoothing Aperture (%)
 Tag:VNA_MEAS:Aperture
 Commands:GET, SET
 Data Type:FLOAT
 Range: 0.01 to 20

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 163 OF 172	

Availability:

Operating Mode:VNA

Menu:VNA_MEAS

Typical Completion Time:100 ms

Name:Return Loss Ref Value (dB)

Tag:VNA_SCALE:Return Loss Ref Value

Commands:GET, SET

Data Type:FLOAT

Range: -1000 to 1000

Availability:

Operating Mode:VNA

Menu:VNA_SCALE

Typical Completion Time:100 ms

Name:Return Loss Scale (dB/div)

Tag:VNA_SCALE:Return Loss Scale

Commands:GET, SET

Data Type:FLOAT

Range: 0.001 to 200

Availability:

Operating Mode:VNA

Menu:VNA_SCALE

Typical Completion Time:100 ms

Name:Return Loss Auto Scale

Tag:VNA_SCALE:Return Loss Auto Scale

Commands:DO

Data Type:FUNCTION

Availability:

Operating Mode:VNA

Menu:VNA_SCALE

Typical Completion Time:100 ms

Name:VSWR Ref Value

Tag:VNA_SCALE:VSWR Ref Value

Commands:GET, SET

Data Type:FLOAT

Range: -10001 to 10001

Availability:

Operating Mode:VNA

Menu:VNA_SCALE

Typical Completion Time:100 ms

Name:VSWR Scale

Tag:VNA_SCALE:VSWR Scale

Commands:GET, SET

Data Type:FLOAT

Range: 0.001 to 1000


Availability:

Operating Mode:VNA

Menu:VNA_SCALE

Typical Completion Time:100 ms

Name:VSWR Auto Scale

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 164 OF 172	

Tag:VNA_SCALE:VSWR Auto Scale
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:VNA
 Menu:VNA_SCALE
 Typical Completion Time:100 ms


Name:Ref Value (dB)
 Tag:VNA_SCALE:DTF Ref Value
 Commands:GET, SET
 Data Type:FLOAT
 Range: -1000 to 1000
 Availability:
 Operating Mode:VNA
 Menu:VNA_SCALE
 Typical Completion Time:100 ms

Name:Scale (dB/div)
 Tag:VNA_SCALE:DTF Scale
 Commands:GET, SET
 Data Type:FLOAT
 Range: 0.001 to 200
 Availability:
 Operating Mode:VNA
 Menu:VNA_SCALE
 Typical Completion Time:100 ms

Name:Auto Scale
 Tag:VNA_SCALE:DTF Auto Scale
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:VNA
 Menu:VNA_SCALE
 Typical Completion Time:100 ms

Name:Active Trace
 Tag:VNA_TRACE:Active Trace
 Commands:GET, SET
 Data Type:BOOLEAN
 List Values: Return Loss, VSWR
 Availability:
 Operating Mode:VNA
 Menu:VNA_TRACE
 Typical Completion Time:100 ms

Name:Trace Memory
 Tag:VNA_TRACE:RL Trace Memory
 Commands:GET, SET
 Data Type:BOOLEAN
 List Values: Off, On
 Availability:
 Operating Mode:VNA
 Menu:VNA_TRACE

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 165 OF 172	

Typical Completion Time:100 ms

Name:Trace Math
 Tag:VNA_TRACE:RL Trace Math
 Commands:GET, SET
 Data Type:LIST
 List Values: Off, Data+MEM, Data-MEM, Data*MEM, Data/MEM
 Availability:
 Operating Mode:VNA
 Menu:VNA_TRACE
 Typical Completion Time:100 ms


Name:Trace Memory
 Tag:VNA_TRACE:VSWR Trace Memory
 Commands:GET, SET
 Data Type:BOOLEAN
 List Values: Off, On
 Availability:
 Operating Mode:VNA
 Menu:VNA_TRACE
 Typical Completion Time:100 ms

Name:Trace Math
 Tag:VNA_TRACE:VSWR Trace Math
 Commands:GET, SET
 Data Type:LIST
 List Values: Off, Data+MEM, Data-MEM, Data*MEM, Data/MEM
 Availability:
 Operating Mode:VNA
 Menu:VNA_TRACE
 Typical Completion Time:100 ms

Name:Trace Memory
 Tag:VNA_TRACE:DTF Trace Memory
 Commands:GET, SET
 Data Type:BOOLEAN
 List Values: Off, On
 Availability:
 Operating Mode:VNA
 Menu:VNA_TRACE
 Typical Completion Time:100 ms

Name:Trace Math
 Tag:VNA_TRACE:DTF Trace Math
 Commands:GET, SET
 Data Type:LIST
 List Values: Off, Data+MEM, Data-MEM, Data*MEM, Data/MEM
 Availability:
 Operating Mode:VNA
 Menu:VNA_TRACE
 Typical Completion Time:100 ms

Name:Active Trace
 Tag:VNA_MARKER:Active Trace
 Commands:GET, SET

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 166 OF 172	

Data Type:BOOLEAN
 List Values: Return Loss, VSWR
 Availability:
 Operating Mode:VNA
 Menu:VNA_MARKER
 Typical Completion Time:100 ms


Name:Marker Mode
 Tag:VNA_MARKER:Markers
 Commands:GET, SET
 Data Type:LIST
 List Values: Off, Absolute, Delta
 Availability:
 Operating Mode:VNA
 Menu:VNA_MARKER
 Typical Completion Time:100 ms

Name>Select Marker
 Tag:VNA_MARKER>Select Marker
 Commands:GET, SET
 Data Type:LIST
 List Values: 1, 2, 3, 4, 5, 6, Ref [VNA_MARKER:Markers=Delta]
 Availability:
 Operating Mode:VNA
 Menu:VNA_MARKER
 Typical Completion Time:100 ms

Name:Marker Frequency
 Tag:VNA_MARKER:Marker Frequency
 Commands:GET, SET
 Data Type:FLOAT
 Range: 1000000 Hz to 6000000000 Hz
 Units: Hz, kHz, MHz, GHz
 Availability:
 Operating Mode:VNA
 Menu:VNA_MARKER
 Typical Completion Time:100 ms

Name:Marker Distance
 Tag:VNA_MARKER:Marker Distance
 Commands:GET, SET
 Data Type:FLOAT
 Range: 0 m to 1000 m
 Units: m, ft
 Availability:
 Operating Mode:VNA
 Menu:VNA_MARKER
 Typical Completion Time:100 ms

Name:Marker On/Off
 Tag:VNA_MARKER:Marker On/Off
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:VNA

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 167 OF 172	

Menu:VNA_MARKER
 Typical Completion Time:100 ms

Name:Marker Search
 Tag:VNA_MARKER:VNA_SEARCH
 Commands:GO
 Data Type:SUBMENU
 Availability:
 Operating Mode:VNA
 Menu:VNA_MARKER
 Typical Completion Time:100 ms


Name:Return Loss Markers X
 Tag:VNA_MARKER:RL Markers X
 Commands:GET
 Data Type:ARRAY
 Availability:
 Operating Mode:VNA
 Menu:VNA_MARKER
 Typical Completion Time:100 ms

Name:Return Loss Markers Y
 Tag:VNA_MARKER:RL Markers Y
 Commands:GET
 Data Type:ARRAY
 Availability:
 Operating Mode:VNA
 Menu:VNA_MARKER
 Typical Completion Time:100 ms

Name:VSWR Markers X
 Tag:VNA_MARKER:VSWR Markers X
 Commands:GET
 Data Type:ARRAY
 Availability:
 Operating Mode:VNA
 Menu:VNA_MARKER
 Typical Completion Time:100 ms

Name:VSWR Y
 Tag:VNA_MARKER:VSWR Markers Y
 Commands:GET
 Data Type:ARRAY
 Availability:
 Operating Mode:VNA
 Menu:VNA_MARKER
 Typical Completion Time:100 ms

Name:DTF Markers X
 Tag:VNA_MARKER:DTF Markers X
 Commands:GET
 Data Type:ARRAY
 Availability:
 Operating Mode:VNA
 Menu:VNA_MARKER

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 168 OF 172	

Typical Completion Time:100 ms

Name:DTF Markers Y
 Tag:VNA_MARKER:DTF Markers Y
 Commands:GET
 Data Type:ARRAY
 Availability:
 Operating Mode:VNA
 Menu:VNA_MARKER
 Typical Completion Time:100 ms


Name:Select Marker
 Tag:VNA_SEARCH:Select Marker
 Commands:GET, SET
 Data Type:LIST
 List Values: 1, 2, 3, 4, 5, 6, Ref [VNA_MARKER:Markers=Delta]
 Availability:
 Operating Mode:VNA
 Menu:VNA_SEARCH
 Typical Completion Time:100 ms

Name:Max Peak
 Tag:VNA_SEARCH:Max Peak
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:VNA
 Menu:VNA_SEARCH
 Typical Completion Time:100 ms

Name:Min Valley
 Tag:VNA_SEARCH:Min Valley
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:VNA
 Menu:VNA_SEARCH
 Typical Completion Time:100 ms

Name:Peak Excursion
 Tag:VNA_SEARCH:Peak Excursion
 Commands:GET, SET
 Data Type:FLOAT
 Range: 0.001 to 1000
 Availability:
 Operating Mode:VNA
 Menu:VNA_SEARCH
 Typical Completion Time:100 ms

Name:Peak Left
 Tag:VNA_SEARCH:Peak Left
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:VNA

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 169 OF 172	

Menu:VNA_SEARCH
 Typical Completion Time:100 ms

Name:Peak Right
 Tag:VNA_SEARCH:Peak Right
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:VNA
 Menu:VNA_SEARCH
 Typical Completion Time:100 ms


Name:Valley Left
 Tag:VNA_SEARCH:Valley Left
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:VNA
 Menu:VNA_SEARCH
 Typical Completion Time:100 ms

Name:Valley Right
 Tag:VNA_SEARCH:Valley Right
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:VNA
 Menu:VNA_SEARCH
 Typical Completion Time:100 ms

Name:
 Tag:VNA_CABLE:Cable Name
 Commands:GET, SET
 Data Type:LIST
 List Values:
 Availability:
 Operating Mode:VNA
 Menu:VNA_CABLE
 Typical Completion Time:100 ms

Name:Velocity Factor
 Tag:VNA_CABLE:Velocity Factor
 Commands:GET
 Data Type:FLOAT
 Range: 0.001 to 1
 Availability:
 Operating Mode:VNA
 Menu:VNA_CABLE
 Typical Completion Time:100 ms

Name:Cable Loss
 Tag:VNA_CABLE:Cable Loss
 Commands:GET
 Data Type:FLOAT
 Range: 0 dB/m to 10 dB/m

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 170 OF 172	

Units: dB/m, dB/ft

Availability:

Operating Mode:VNA

Menu:VNA_CABLE

Typical Completion Time:100 ms

Name:Cable Loss Frequency

Tag:VNA_CABLE:Cable Loss Frequency

Commands:GET

Data Type:FLOAT

Range: 1000000 Hz to 10000000000 Hz

Units: Hz, kHz, MHz, GHz

Availability:

Operating Mode:VNA

Menu:VNA_CABLE

Typical Completion Time:100 ms

Name:

Tag:VNA_FILE:Files

Commands:GET, SET

Data Type:LIST

List Values:

Availability:

Menu:VNA_FILE

Typical Completion Time:0 ms

Name:Save State/Trace

Tag:VNA_FILE:Save

Commands:DO

Data Type:FUNCTION

Availability:

Operating Mode:VNA

Menu:VNA_FILE

Typical Completion Time:100 ms

Name:Recall

Tag:VNA_FILE:VNA_RECALL

Commands:GO

Data Type:SUBMENU

Availability:

Operating Mode:VNA

Menu:VNA_FILE

Typical Completion Time:100 ms

Name:SITE ID

Tag:VNA_FILE:SITE ID

Commands:GET, SET

Data Type:STRING


char set:0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, , ., -, (,), -

Availability:

Menu:VNA_FILE

Typical Completion Time:0 ms

Name:GPS Latitude


 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 171 OF 172	

Tag:VNA_FILE:GPS Latitude
 Commands:GET, SET
 Data Type:STRING
 Format:(size[%1.11s])
 char set:0, 1, 2, 3, 4, 5, 6, 7, 8, 9, ., -
 Availability:
 Operating Mode:VNA
 Menu:VNA_FILE
 Typical Completion Time:0 ms

Name:GPS Longitude
 Tag:VNA_FILE:GPS Longitude
 Commands:GET, SET
 Data Type:STRING
 Format:(size[%1.12s])
 char set:0, 1, 2, 3, 4, 5, 6, 7, 8, 9, ., -
 Availability:
 Operating Mode:VNA
 Menu:VNA_FILE
 Typical Completion Time:0 ms

Name:Load
 Tag:VNA_RECALL:Load File
 Commands:DO
 Data Type:FUNCTION
 Availability:
 Operating Mode:VNA
 Menu:VNA_RECALL
 Typical Completion Time:100 ms

Name:
 Tag:UTILITY>LastParameter
 Commands:GET
 Data Type:INTEGER
 Availability:
 Option:R8-OEM
 Menu:UTILITY
 Typical Completion Time:0 ms

 Kilgore, TX	TYPE: Programmer's Guide	NO: FCT-1110	REV: T
	TITLE: R8000 Monitor & Control	PAGE: 172 OF 172	

T – Updates for 4.5	M. Mullins	A. Baker	4/11/24	0435
S – Updates for 4.4	M. Mullins	A. Baker	7/11/22	0398
R – Updates for 4.3	M. Mullins	DC	9/8/21	0379
Q – Updates for 4.2	M. Mullins	DC	5/14/21	0366
P – Updates for 4.1	M. Mullins	DC	12/7/20	0324
N – Updates for 4.0	M. Mullins	DC	09/21/20	0318
M – Updates for 3.8	M. Mullins	DC	06/02/20	0308
L – Updates for 3.7	C. Mboula	DC	09/18/19	0224
K – Updates for 3.5	D. Bulgrien	DC	12/5/18	0215
J – Updates for 3.4.2	D. Bulgrien	DC	10/30/18	0211
H – Updates for 3.3	D. Bulgrien	DC	6/27/18	0198
G – Updates for 3.1	D. Bulgrien	DC	3/7/18	0167
F – Updates for 3.0.0.0	M. Mullins	DC	11/10/17	0156
E – Updates for 2.3.4.0	D. Bulgrien	DC	5/18/17	0118
D – Updates for 2.2.0.0	D. Bulgrien	DC	1/15/17	0098
C – Updates for 2.1.0.0	M. Mullins	F.Fu	8/18/16	0063
B – Updates for 2.0.0.0	D. Bulgrien	F. Fu	8/17/16	0052
A – Was CG1110; 1.19 updates	M. Mullins	F.Fu	11/5/15	0007
Revision – Change	Requested By	Released By	Date	ECO#