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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

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?**.

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[]
```

8. **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
```

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**: Unused.
 - 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.

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

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

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.

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

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.

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 2.3.4.0.

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:1000 ms

Name:P25 II
Tag:SYSTEM:P25_II
Commands:GO
Data Type:SUBMENU
Availability:
 Option:R8-P25_II
Typical Completion Time:1000 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
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-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
Typical Completion Time:2000 ms

Name:NXDN™ TRUNK
Tag:SYSTEM:NXDN_TRUNK
Commands:GO
Data Type:SUBMENU
Availability:
Option:R8-NXDNTYPC
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
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
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=NXDN or Test Mode=NXDN Trunk or Test Mode=DPMR], Oscilloscope [Test Mode=Standard or Test Mode=PROJECT 25 or Test Mode=P25 II or Test Mode=P25 Trunk or Test Mode=NXDN or Test Mode=NXDN Trunk or Test Mode=DPMR], Bar Graphs [Test Mode=Standard or

Test Mode=PROJECT 25 or Test Mode=P25 II or Test Mode=NXDN or Test Mode=DPMR], Eye Diagram [Test Mode=PROJECT 25 or Test Mode=P25 II or Test Mode=P25 Trunk or Test Mode=NXDN or Test Mode=NXDN Trunk or Test Mode=DPMR or Test Mode=PTC-ITCR], Power Profile [Test Mode=DMR or Test Mode=TETRA or Test Mode=P25 II and P25_II:Mon Mod Type=HCPM or Test Mode=PTC-ITCR], General Sequence [METER:Decoder=General Sequence], Voice Frame Decode [Test Mode=PROJECT 25], Mod Spec / Constellation [Test Mode=TETRA], Constellation Plot [Test Mode=PTC-ITCR or Test Mode=PROJECT 25 and P25:Mon Mod Type=LSM or Test Mode=PROJECT 25 and P25:Mon Mod Type=WCQPSK], Distribution Plot [Test Mode=PROJECT 25 or Test Mode=P25 Trunk or Test Mode=P25 II or Test Mode=PTC-ITCR]

Availability:

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

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

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: 0 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:
 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

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

Menu:DISPLAY:Subzone=Oscilloscope

Typical Completion Time:500 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: 0 to 200000

Availability:

Operating Mode:Monitor, Generate, Duplex

Menu:DISPLAY:Subzone=Mod Scope

Typical Completion Time:100 ms

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 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: 0 to 100
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

Typical Completion Time:100 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=TETRA or Test Mode=P25 II], Slot 1 [Test Mode=TETRA or Test Mode=P25 II], 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: 0 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 Maximum (ms)
Tag:DISPLAY:PP Horizontal Maximum
Commands:GET, SET
Data Type:INTEGER
Range: 20 to 500
Availability:
 Operating Mode:Monitor, Duplex
 Option:R8-PTC_ITCR
 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
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:
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:Select Meter
Tag:METER:Subzone
Commands:GET, SET
Data Type:LIST
List Values: Power Meter [Test Mode=Standard or Test Mode=PROJECT 25 or Test Mode=P25 II or Test Mode=NXDN or Test Mode=DMR or Test Mode=DPMR], Voltmeter [Test Mode=Standard or Test Mode=PROJECT 25 or Test Mode=P25 II or Test Mode=NXDN or Test Mode=DMR or Test Mode=TETRA or Test Mode=DPMR], 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=P25 II or Test Mode=PTC-ITCR], RF Scan [Test Mode=Standard or Test Mode=DMR], NXDN™ Trunking [Test Mode=NXDN Trunk]

Availability:

Operating Mode:Monitor, Generate, Duplex

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

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 [Test Mode=Standard or Test Mode=PROJECT 25 or Test Mode=P25 II or Test Mode=NXDN or Test Mode=DMR or Test Mode=TETRA or Test Mode=DPMR], DC Volts [Test Mode=Standard or Test Mode=PROJECT 25 or Test Mode=P25 II or Test Mode=NXDN or Test Mode=DMR or Test Mode=TETRA or Test Mode=DPMR]

Availability:

Operating Mode:Monitor, Generate, Duplex

Menu:METER:Subzone=Voltmeter

Typical Completion Time:100 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
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: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: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>Select Audio Measurement
Tag:METER:Audio Meter
Commands:GET, SET
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
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
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

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
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
 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
 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: Stop, Start
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, Duplex
 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
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: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
List Values: FM [Test Mode=Standard], AM [Test Mode=Standard], 4FSK [Test Mode=DMR or Test Mode=DPMR or Test Mode=NXDN], 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=TETRA or Test Mode=PTC-ITCR], 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 Level (dBm)
Tag:RF:Output Level
Commands:GET, SET
Data Type:FLOAT
Range: 0 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), 12.5 kHz (Narrow), 25 kHz (Wide), 50 kHz (Wide), 100 kHz (Wide), 200 kHz (Wide)
Availability:
 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: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
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:
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,
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:

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:
 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)

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:
 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 100000
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

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 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: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:
 Operating Mode:Generate, Duplex
 Menu:AUDIO

Typical Completion Time:100 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

Availability:

Operating Mode:Monitor, Generate, Duplex

Menu:AUDIO

Typical Completion Time:100 ms

Name:Low Pass Filter

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: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
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: 70 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: 70 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
Range: 0 to 10
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 10
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 10
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 10
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 10
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 10
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 10
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 10
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
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 20000
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
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

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
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: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 [Option=R8-TETRA], DPMR [Option=R8-DPMR], P25 II [Option=R8-P25_II], PTC-ITCR [Option=R8-PTC_ITCR]
Typical Completion Time:5000 ms

Name:AutoScript
Tag:TEST:AUTOSCRIPT
Commands:GO
Data Type:SUBMENU
Typical Completion Time:0 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
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
Tag:MONITOR:Frequency Error
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:Deviation
Tag:MONITOR:Deviation+
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

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
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: 0 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
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: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
 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: 0 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
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
 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: 0 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
Availability:
 Menu:DUAL_SCOPE:Subzone=Modulation Scope
Typical Completion Time:100 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
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: 0 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
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
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: 0 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
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: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
Commands:GET, SET
Data Type:FLOAT
Range: 0 to 100
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
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: 0 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 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
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

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

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: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:BOOLEAN
List Values: 1 MegOhm, 600 Ohm
Availability:

Menu:SETUP
Typical Completion Time:100 ms

Name:Reference Clock Mode
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: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:Reset to Defaults
Tag:SETUP:DefaultSetups
Commands:DO
Data Type:FUNCTION
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:Date
Tag:SETUP:NewDate
Commands:GET, SET
Data Type:STRING
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:Apply Date/Time Changes
Tag:SETUP:ApplyDateTime
Commands:DO
Data Type:FUNCTION
Availability:
 Menu:SETUP
Typical Completion Time:100 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: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: 0 to 99
Availability:
 Menu:SETUP
Typical Completion Time:500 ms

Name:RF Gen Out Offset (dB)
Tag:SETUP:RF Gen Out Offset
Commands:GET, SET
Data Type:FLOAT
Range: 0 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: 0 to 99
Availability:
 Menu:SETUP
Typical Completion Time:500 ms

Name:Language
Tag:SETUP:Language Select
Commands:GET, SET
Data Type:LIST
List Values: English, Spanish
Availability:
 Menu:SETUP
Typical Completion Time:6000 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:Cable Sweep
Tag:SETUP:Cable Sweep
Commands:GET, SET
Data Type:BOOLEAN
List Values: Off, On
Availability:
 Menu:SETUP
Typical Completion Time:100 ms

Name:Select Frequency to Edit
Tag:SETUP:Select Frequency
Commands:GET, SET
Data Type:LIST
List Values: 100, 1000
Availability:
 Menu:SETUP
Typical Completion Time:100 ms

Name:Select Attenuation to Edit
Tag:SETUP:Select Attenuation
Commands:GET, SET
Data Type:ARRAY
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
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
Commands: DO
Data Type: FUNCTION
Availability:
Menu: PRESETS
Typical Completion Time: 15000 ms

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

Name:RF In/Out Offset (dB)
Tag:AUTOTUNE:RF In/Out Offset
Commands:GET, SET
Data Type:FLOAT
Range: 0 to 99
Availability:
 Menu:AUTOTUNE
Typical Completion Time:500 ms

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

Name:Brand
Tag:DMR:Brand
Commands:GET, SET
Data Type:LIST
List Values: MOTOTRBO™, Other
Availability:
 Menu:DMR
Typical Completion Time:100 ms

Name:Mon Sync Pattern
Tag:DMR:SYNC Pattern
Commands:GET, SET
Data Type:LIST
List Values: BS Sourced Voice, BS Sourced Data, MS Sourced Voice
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:

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

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
 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
List Values: 1031 Hz Tone, Calibration (0.153 1%), 0.153, Silence, BS Idle
Availability:
 Operating Mode:Generate, Duplex
 Menu:DMR
Typical Completion Time:100 ms

Name:
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:
Tag:DMR:BER Result
Commands:GET
Data Type:FLOAT
Range: 0 to 100

Availability:
 Operating Mode:Monitor
 Menu:DMR
Typical Completion Time:0 ms

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

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

Name:
Tag:P25:Symbol Rate Error
Commands:GET
Data Type:FLOAT
Availability:
 Operating Mode:Monitor, Duplex
 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:Test Pattern
Tag:P25: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], Modified 1011 Hz Availability:

Operating Mode:Monitor, 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], 4FSK [Test Mode=DMR or Test Mode=DPMR or Test Mode=NXDN], 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=TETRA or Test Mode=PTC-ITCR], 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

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:Version
Tag:P25:Version
Commands:GET
Data Type:STRING
Availability:
 Menu:P25
Typical Completion Time:0 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: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

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

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], 4FSK [Test Mode=DMR or Test Mode=DPMR or Test Mode=NXDN], 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=TETRA or Test Mode=PTC-ITCR], 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

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:WUID (Hex)

Tag:P25_TRUNK:WUID

Commands:GET, SET

Data Type:STRING

Format:0x000000

Availability:

Operating Mode:Duplex

Menu:P25_TRUNK:Subzone=Alert/Dispatch

Typical Completion Time:100 ms

Name:RFSS ID (Hex)

Tag:P25_TRUNK:RFSS ID

Commands:GET, SET

Data Type:STRING

Format:0x00

Availability:

Operating Mode:Duplex

Menu:P25_TRUNK:Subzone=Alert/Dispatch

Typical Completion Time:100 ms

Name:WGID (Hex)

Tag:P25_TRUNK:WGID

Commands:GET, SET

Data Type:STRING

Format:0x0000
Availability:
 Operating Mode:Duplex
 Menu:P25_TRUNK:Subzone=Alert/Dispatch
Typical Completion Time:100 ms

Name:SITE ID (Hex)
Tag:P25_TRUNK:SITE ID
Commands:GET, SET
Data Type:STRING
Format:0x00
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:Identifier Update
Tag:P25_TRUNK:Iden Up
Commands:GET, SET
Data Type:BOOLEAN
List Values: OFF, ON
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

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:Voice Chnl TX Frequency
Tag:P25_TRUNK:VCTx
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
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: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
 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:Band
Tag:BANDPLAN:Band
Commands:GET, SET
Data Type:LIST
List Values: 800 MHz, 700 MHz, UHF/VHF
Availability:
 Operating Mode:Duplex
 Menu:BANDPLAN
Typical Completion Time:100 ms

Name:Set Band Plan to Defaults
Tag:BANDPLAN:Band Defaults
Commands:DO
Data Type:FUNCTION
Availability:
 Operating Mode:Duplex
 Menu:BANDPLAN
Typical Completion Time:200 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:Base Frequency
Tag:BANDPLAN:Base Frequency
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 to 512
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: Channel Identifier
Tag: BANDPLAN:Channel Id
Commands: GET, SET
Data Type: INTEGER
Range: 1 to 16
Availability:
 Operating Mode: Duplex
 Menu: BANDPLAN
Typical Completion Time: 100 ms

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

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

Name:
Tag: NXDN:Modulation Fidelity
Commands: GET
Data Type: FLOAT
Availability:
 Operating Mode: Monitor
 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
 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
 Menu:NXDN
Typical Completion Time:100 ms

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

Name:Test Pattern
Tag:NXDN: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 [Operating Mode=Generate], Max Freq Deviation [Operating Mode=Generate], 1/3 Freq Deviation [Operating Mode=Generate]
Availability:
 Operating Mode:Monitor, Generate
 Menu:NXDN
Typical Completion Time:100 ms

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

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

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

Name:Subzone
Tag:NXDN_TRUNK:Subzone
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:
 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: 0 to 100
Availability:
 Operating Mode:Duplex
 Menu:NXDN_TRUNK:Subzone=Alert/Dispatch
Typical Completion Time:100 ms

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
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: Version
Tag: TETRA: Version
Commands: GET
Data Type: STRING
Availability:
 Menu: TETRA
Typical Completion Time: 0 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
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
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: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
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
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
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:AUTOSCRIPT
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:
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
 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:Eye Diagram Data
Tag:DPMR:Eye Data
Commands:GET
Data Type:ARRAY
Availability:
 Operating Mode:Monitor
 Menu:DPMR
Typical Completion Time:100 ms

Name:Version
Tag:DPMR:Version
Commands:GET
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:
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:Test Pattern

Tag:P25_II:Test Pattern

Commands:GET, SET

Data Type:LIST

List Values: 1031 Hz Tone, 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

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], 4FSK [Test Mode=DMR or Test Mode=DPMR or Test Mode=NXDN], 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=TETRA or Test Mode=PTC-ITCR], 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:
 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:Version
Tag:P25_II:Version
Commands:GET
Data Type:STRING
Availability:
 Menu:P25_II
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:
 Operating Mode:Monitor, Duplex
 Menu:PTC_ITCR
Typical Completion Time:500 ms

Name:Reset Symbol Rate Error
Tag:PTC_ITCR:Reset SRE
Commands:DO
Data Type:FUNCTION
Availability:
 Operating Mode:Monitor, Duplex
 Menu:PTC_ITCR
Typical Completion Time:100 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:Symbol Rate Error (mHz)
Tag:PTC_ITCR:Sym Rate Err
Commands:GET
Data Type:FLOAT
Availability:
 Operating Mode:Monitor, Duplex
 Menu:PTC_ITCR
Typical Completion Time:0 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:
Tag:PTC_ITCR:EVM
Commands:GET
Data Type:FLOAT
Availability:
 Operating Mode:Monitor, Duplex
 Menu:PTC_ITCR
Typical Completion Time:0 ms

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

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

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

Name:
Tag:UTILITY>LastParameter

Commands:GET
Data Type:INTEGER
Availability:
 Option:R8-OEM
 Menu:UTILITY
Typical Completion Time:0 ms

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