TASCAM MX-8A/DCP Series

CONTROL I/O Terminals

RS-232C／ETHERNET Protocol Specifications

Ver. 1.00

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TEAC Corporation

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1. Overview

An MX-8A/DCP Series unit can be controlled from a computer or other connected device using the RS-232C (MX-8A only) or ETHERNET connector on the unit. In this document, the MX-8A/DCP Series is the controlled device. Moreover, the connected device controlling the unit is the external controller.

2. Specifications

RS-232C connector (MX-8A only)
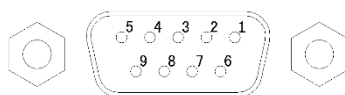
Electronic specifications

Standard	JIS X-5101 (equivalent to the former JIS-C-6361 and EIA RS-232C standards) Note that this is not compatible with the RS-422 used in professional VTRs.
Impedance at receiver	When measured with an applied voltage between −3 V and +3 V or between −15 V and +15 V, the DC resistance is between 3 k ohms and 7 k ohms. Total load capacitance is 2500 pF or less.
Open circuit voltage at transmitter	25V or less
Open circuit voltage at receiver	2V or less
Signal voltage	When the open circuit voltage at the receiver is 0 V, the signal voltage is between −5 V and +5 V or between −15 V and +15V against a load impedance between 3 k ohms and 7 k ohms.
Signal discrimination	Logic "1" : −3V or less Logic "0" : +3V or more

Communication format

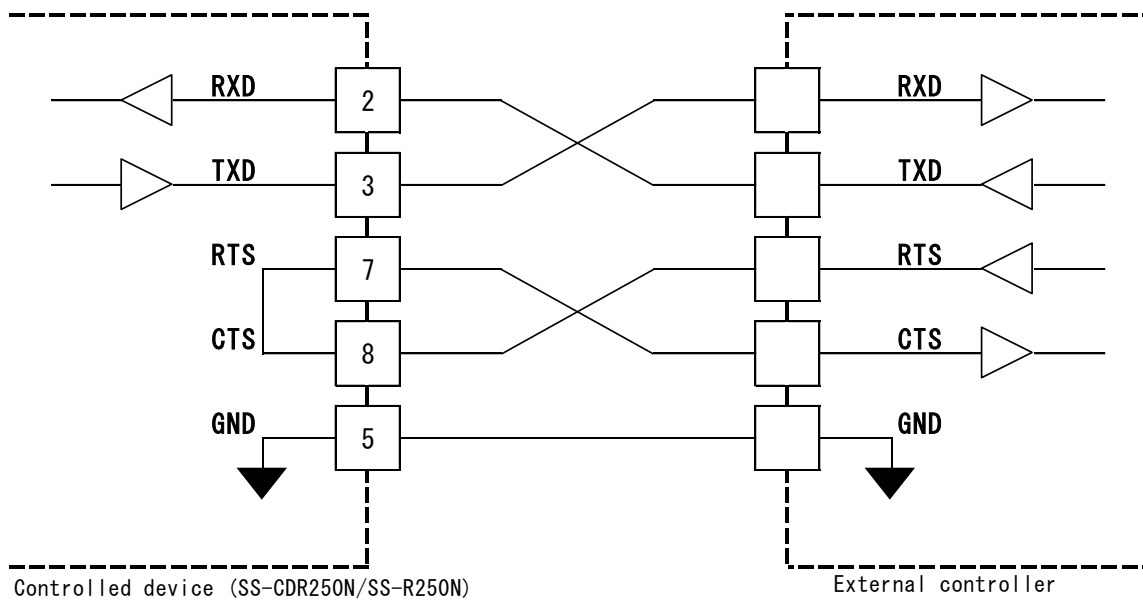|	
Circuit type	3-wire, Half-duplex
Transmission type	Digital binary serial
Data signal rate (baud rate)	4800/9600/19200/38400/57600 bits/sec
Data bits	7/8 bits
Parity bits	None/ODD/EVEN
Stop bits	1/2 bit

Connector pin-out

Connector   D-sub 9pin female (Inch screw thread)

```
        5  4  3  2  1
         9  8  7  6
```

Terminal pin-out and input/output signals

Pin No.	In/Out	Signal name	Description
1	–	NC	Not connected
2	In	Rx Data	Data received at this pin (*1)
3	Out	Tx Data	Data transmitted from this pin
4	Out	(Reserved)	Reserved
5	–	GND	Signal ground pin
6	In	(Reserved)	Reserved
7	In	RTS	Request To Send (input of send request) (*2)
8	Out	CTS	Clear To Send (output of receive preparation complete) (*2)
9	–	NC	Not connected

*1: Make sure that a voltage applied to Pin No. 2 for Rx DATA conforms to the RS-232C standard.
*2: Pins No. 7 and 8 are short-circuited to receive or transmit RTS/CTS signals. When conducting RTS/CTS control, refer to the design of the external controller.

RXD — 2 — RXD
TXD — 3 — TXD
RTS — 7 — RTS
CTS — 8 — CTS
GND — 5 — GND

Controlled device (SS-CDR250N/SS-R250N)   External controller

ETHERNET connector
  Transmission interface
    Transmission system   Full-duplex
    Transmission protocol TCP/IP
    Port number   54726 (fixed)
    Ethernet standard   100BASE-TX
    Connector   RJ-45
    Cable   Category 5e or faster STP cable

Overview of ETHERNET connection (LOGIN)
  Logging in is necessary after connecting by TCP/IP with the controlled device to enable protocol interactions.

  Login procedure
  1. Connect by TCP/IP.
     For the IP address, enter that of the controlled device.
     The port number is "54726" (fixed).
  2. Send a "CR+LF" command complete code. (Carriage return (CR: 0x0D) + line feed (LF: 0x0A))
     The unit will reply with, "Enter Password".
  3. Next send the password + "CR+LF" to log in.
     · No password is set for the controlled device when shipped new from the factory.
     · If no password has been set, send "CR+LF" only.
  4. If the login succeeds, the unit will reply with, "Login Successful".
     This completes enabling protocol interactions with the unit.

  ATTENTION
  · Only one Ethernet connection is to be made.
    If another host is already connected, the result will be "Another User Already Connected" and the connection will be ended.
  · If no protocol exchange occurs for three minutes when connected, a timeout will occur and the connection will be ended.
    To prevent timeouts from occurring, retrieve the device name, for example, regularly (at intervals of less than three minutes).

Command Format Overview

Fundamental command specifications

	RS-232C	ETHERNET
Character use	Use ASCII characters. Using UTF-8 for certain commands, including setting names.	
Delimiter	Half-width (standard) space (␣: 0x20)	
Command start code	Linefeed (LF: 0x0A)	None
Command end code	Carriage return (CR: 0x0D)	(Carriage return (CR: 0x0D) + line feed (LF: 0x0A))
Maximum data length	1024 bytes (including LF/CR)	

Command format
RS-232C

LF	Command Type	Delimiter	Parameter 1	Delimiter	Parameter 2	⋯	Parameter N	Delimiter	CR

・ The delimiter for the final parameter can be omitted. ⬆

ETHERNET

Command Type	Delimiter	Parameter 1	Delimiter	Parameter 2	⋯	Parameter N	Delimiter	CR	LF

・ The delimiter for the final parameter can be omitted. ⬆

Command format details

Item			Contents
Command Type	SET	Setting command	External controller -> Controlled device
	GET	Retrieval command	External controller -> Controlled device
	NOTIFY	Notification command	External controller -> Controlled device
	METER	Meter data notification command	External controller <- Controlled device
Parameter	When the command type is SET, set Key: Value. When the command type is GET, set Key. When the command type is NOTIFY/METER, set Key: Value. ・ Using delimiters, multiple parameter settings can be made. 　For example: SET□Parameter1␣Parameter2␣⋯) ・ See the Command list below for details about Key/Value.

Command details
SET command
Use this when you want to change a controlled device setting value.
When the external controller sends a SET command and the controlled device receives it, the result
will be sent to the external controller.

Detailed command examples
Example 1: Muting input channel 1
SET ANLGIN/1/MUTE:ON
　　　According to the result, one of the following responses will be sent from the controlled device
　　　to the external controller.
　　　Setting made properly　　　OK SET
　　　Setting not made properly　　OK SET ANLGIN/1/MUTE:ERRX
　　　　　　　　　　　　　　　　　(X depends on the parameter.)
　　　・ If the setting value was changed, the result will be transmitted to the external
　　　　controller as a NOTIFY command.
　　　NOTIFY ANLGIN/1/MUTE:ON

Example 2: Muting input channels 1/2/3
SET ANLGIN/1/MUTE:ON ANLGIN/2/MUTE:ON ANLGIN/3/MUTE:ON
　　　According to the result, one of the following responses will be sent from the controlled device
　　　to the external controller.
　　　Setting made properly　　　OK SET

Setting not made properly   OK SET ANLGIN/3/MUTE:ERRX
(The parameter that could not be set will result in an error.)
・If the setting value was changed, the result will be transmitted to the external controller as a NOTIFY command.
NOTIFY ANLGIN/1/MUTE:ON ANLGIN/2/MUTE:ON ANLGIN/3/MUTE:ON

GET command
Use this when you want to retrieve a controlled device setting value.
When the external controller sends a GET command and the controlled device receives it, the result will be sent to the external controller.

Detailed command examples
Example 1: Retrieving the input channel 1 mute setting
GET ANLGIN/1/MUTE
According to the result, one of the following responses will be sent from the controlled device to the external controller.
Setting made properly   OK GET ANLGIN/1/MUTE:OFF
Setting not made properly   OK GET ANLGIN/1/MUTE:ERRX
         (X depends on the parameter.)
Example 2: Retrieving the input channel 1/2/4 mute settings
GET ANLGIN/1/MUTE ANLGIN/2/MUTE ANLGIN/3/MUTE
According to the result, one of the following responses will be sent from the controlled device to the external controller.
Setting made properly
    OK GET ANLGIN/1/MUTE:OFF ANLGIN/2/MUTE:OFF ANLGIN/3/MUTE:OFF
Setting not made properly
    OK SET ANLGIN/1/MUTE:OFF ANLGIN/2/MUTE:OFF ANLGIN/3/MUTE:ERRX
    (The parameter that could not be set will result in an error.)

NOTIFY command
When a setting has been changed on a controlled device, it sends this to the external controller.

Command examples
Example 1: When the input channel 1 mute setting has been changed (OFF→ON)
NOTIFY ANLGIN/1/MUTE:ON

Example 2: When multiple settings have been changed
NOTIFY ANLGIN/1/MUTE:ON ANLGIN/2/MUTE:ON ANLGIN/3/MUTE:ON

METER command
When a setting is made to acquire meter data, the controlled device sends this to the external controller.
(See the following command sequence example for details.)
Meter data acquisition setting example
1. Set the interval and total time for meter data acquisition (unit: milliseconds).
SET METER/TOTAL:10000 METER/INTERVAL:100
2 Turn the setting ON for the meter data you want to acquire.
SET ANLGIN/1/METER/PRE:ON

In this case, the control device will send meter data to the external controller for 10 seconds every 100 milliseconds (see below).
METER ANLGIN/1/METER/PRE:XXXXXXXX
(XXXXXXXX: meter data value)

CID parameter (CID:XXXXXXXX) overview

A CID (Command ID) can be set in order to identify which SET/GET command prompted the response. If CID is set in a command, the controlled device will include it as is when responding to the remote controller.

Example 1: SET CID:12345678 ANLGIN/1/MUTE:ON
         → OK SET CID:123456789

Example 2: GET CID:12345678 ANLGIN/1/MUTE
         → OK GET CID:12345678 ANLGIN/1/MUTE:ON

Command errors

・If the command type sent to the controlled device cannot be recognized, it will return the command to the remote controller with "NG" (no good) added to the beginning.

Example 1
   PUT ANLGIN/1/MUTE:ON
   → NG PUT ANLGIN/1/MUTE:ON

・Due to a command parameter sent to the controlled device, a command is sent to the remote controller with "ERRX" (see below for X) added.

Example 1: When key was invalid (ERR1)
   GET ANLGIN/1/MUTEE
   →GET ANLGIN/1/MUTEE:ERR1

Example 2: When Value was invalid (ERR2)
   SET ANLGIN/1/TRIM:+40.0
   →SET ANLGIN/1/TRIM:ERR2

Maximum command length

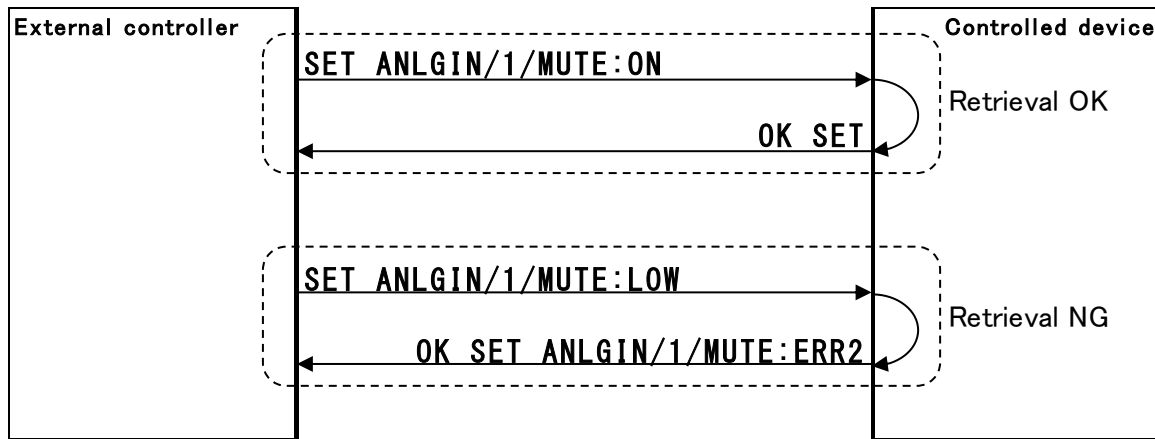The maximum length of command that can be sent and received is 1024 bytes.
・Be careful not to let commands sent to the controlled device exceed 1024 bytes (including LF/CR).

・If a command sent from the controlled device in response to a GET command, for example, would exceed 1024 bytes, it will be divided into parts with suitable sizes and be sent from the control device to the external controller.
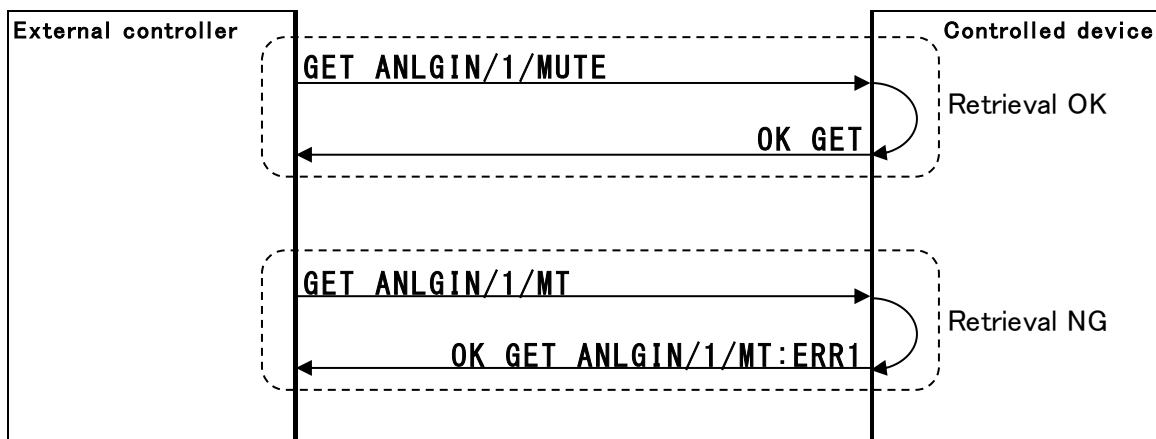
Command sequence examples
    When the command type is SET/GET, make the external controller wait after it is sent to the controlled device until the controlled device sends a response to the command before sending the next SET/GET command.
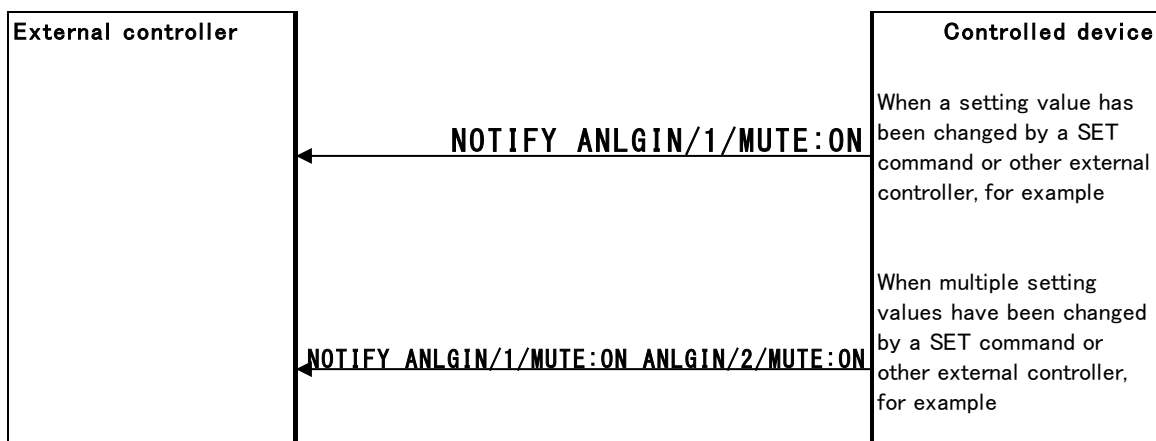
Command sequence examples for each command type
    Example: SET command

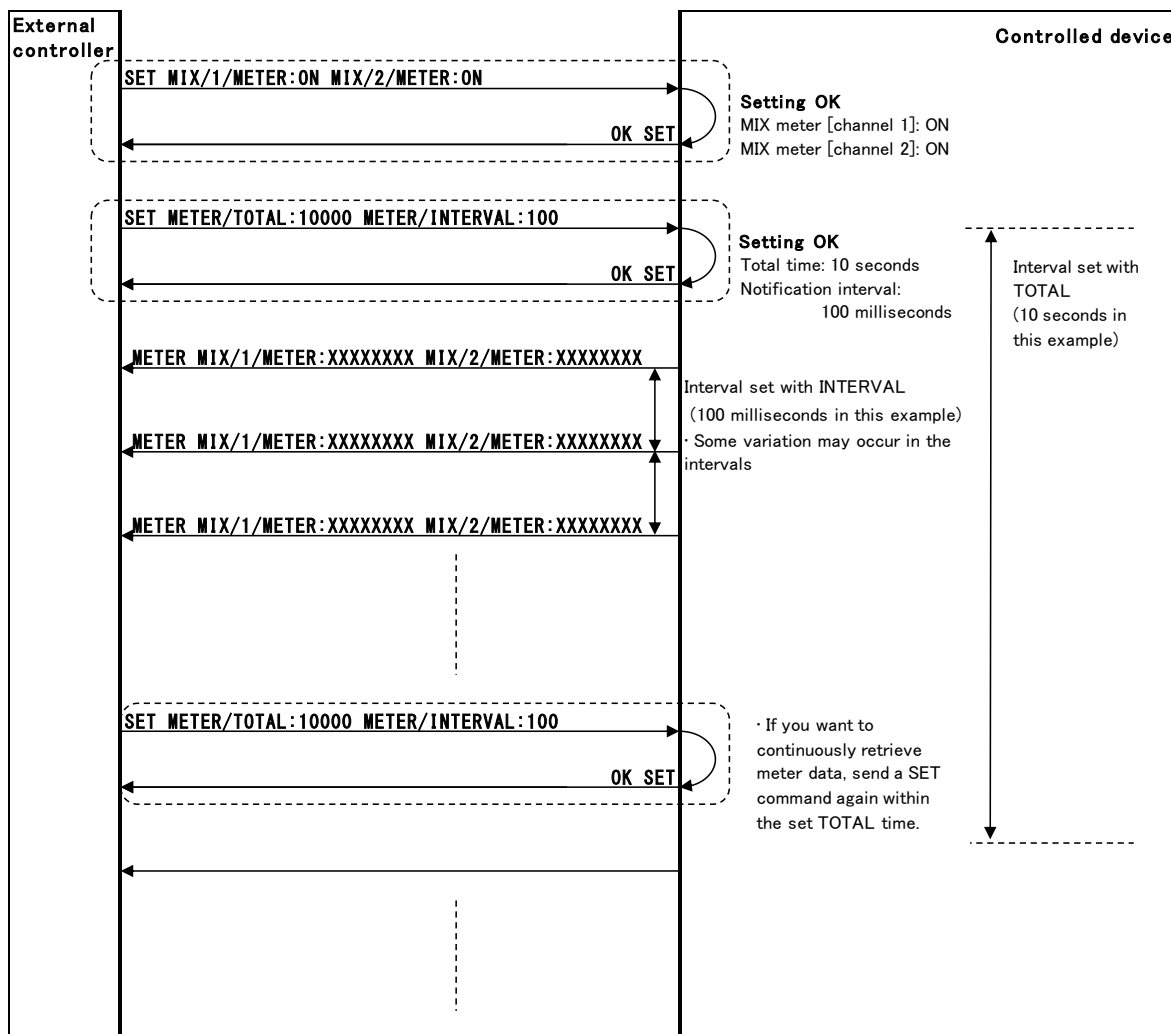| External controller		Controlled device
	SET ANLGIN/1/MUTE:ON →	Retrieval OK
	← OK SET	
	SET ANLGIN/1/MUTE:LOW →	Retrieval NG
	← OK SET ANLGIN/1/MUTE:ERR2	

    Example: GET command

External controller		Controlled device
	GET ANLGIN/1/MUTE →	Retrieval OK
	← OK GET	
	GET ANLGIN/1/MT →	Retrieval NG
	← OK GET ANLGIN/1/MT:ERR1	

    Example: NOTIFY command

External controller		Controlled device
	← NOTIFY ANLGIN/1/MUTE:ON	When a setting value has been changed by a SET command or other external controller, for example
	← NOTIFY ANLGIN/1/MUTE:ON ANLGIN/2/MUTE:ON	When multiple setting values have been changed by a SET command or other external controller, for example

Example: METER command

External controller	**Controlled device**

SET MIX/1/METER:ON MIX/2/METER:ON

OK SET

Setting OK
MIX meter [channel 1]: ON
MIX meter [channel 2]: ON

SET METER/TOTAL:10000 METER/INTERVAL:100

OK SET

Setting OK
Total time: 10 seconds
Notification interval:
100 milliseconds

Interval set with TOTAL
(10 seconds in this example)

METER MIX/1/METER:XXXXXXXX MIX/2/METER:XXXXXXXX

METER MIX/1/METER:XXXXXXXX MIX/2/METER:XXXXXXXX

Interval set with INTERVAL
(100 milliseconds in this example)
· Some variation may occur in the intervals

METER MIX/1/METER:XXXXXXXX MIX/2/METER:XXXXXXXX

SET METER/TOTAL:10000 METER/INTERVAL:100

OK SET

· If you want to continuously retrieve meter data, send a SET command again within the set TOTAL time.

3. Command list

☑ Supported ☐ Not supported

Category	Key	:	Value	SET	GET	NOTIFY	Description
			Parameter	**Command Type**			
	Key	:	**Value**	**SET**	**GET**	**NOTIFY**	**Description**
Common	CID	:	XXXXXXXX	☑	☑	☐	Unique ID set on the host
	NOTIFY	:	OFF/ON	☑	☑	☐	NOTIFY command notification on/off setting
Input	ANLGIN/X/NAME	:	"Input1"	☑	☑	☑	"Input1" Input name (UTF-8 character string inside quotation marks ("") with 96-byte maximum)
	ANLGIN/X/MUTE	:	OFF/ON	☑	☑	☑	Input mute setting
	ANLGIN/X/FADER	:	-INF,-127.0～0.0～+10.0	☑	☑	☑	Input fader setting
	ANLGIN/X/SEL	:	LINE/MIC	☑	☑	☑	Input selection (Line or Mic)
	ANLGIN/X/PHANT	:	OFF/ON	☑	☑	☑	Phantom power setting
	ANLGIN/X/PAD	:	OFF/ON	☑	☑	☑	Mic Gain setting
	ANLGIN/X/GAIN	:	LOW/HIGH	☑	☑	☑	PAD Gain setting
	ANLGIN/X/TRIM	:	MIC:+36.5(MX-8A:36.0,MM-4DIN:33.0)～0 LINE:+10.0～-10.0	☑	☑	☑	Trim setting
	ANLGIN/X/PHASE	:	NOR/INV	☑	☑	☑	Phase setting
	ANLGIN/X/ALC	:	OFF/ON	☑	☑	☑	Auto Level Control setting
	ANLGIN/X/COMP/ENABLE	:	OFF/ON	☑	☑	☑	Compressor ON/OFF setting
	ANLGIN/X/COMP/THRE	:	-32～0(1step)	☑	☑	☑	Compressor threshold level setting
	ANLGIN/X/COMP/RATIO	:	XX(1/1.1/1.3/1.5/1.7/2/2.5/3/3.5/4/5/6/8/16/1000)	☑	☑	☑	Compressor compression ratio setting
	ANLGIN/X/COMP/GAIN	:	0～20(1step)	☑	☑	☑	Compressor output gain setting
	ANLGIN/X/COMP/ATK	:	2～200(2step)	☑	☑	☑	Compressor Attack time setting
	ANLGIN/X/COMP/REL	:	10～1000(10step)	☑	☑	☑	Compressor Release time setting
	ANLGIN/X/COMP/METER	:	OFF/ON	☑	☑	☑	Meter data acquisition ON/OFF setting
	ANLGIN/X/EQ/ENABLE	:	OFF/ON	☑	☑	☑	EQ ON/OFF setting
	ANLGIN/X/EQ/LO/GAIN	:	-12～0～+12(1step)	☑	☑	☑	Low band Gain setting
	ANLGIN/X/EQ/LO/FREQ	:	32/40/50/60/70/80/90/100/125/150/175/200/225/250/300/350/400/450/500/600/ 700/800/850/900/950/1000/1100/1200/1300/1400/1500/1600	☑	☑	☑	Low band cutoff frequency setting
	ANLGIN/X/EQ/LOWCUT	:	OFF/ON	☑	☑	☑	Low band low-cut setting
	ANLGIN/X/EQ/Y/GAIN	:	-12～0～+12(1step)	☑	☑	☑	Band Gain setting
	ANLGIN/X/EQ/Y/FREQ	:	32/40/50/60/70/80/90/100/125/150/175/200/225/250/300/350/400/450/500/600/ 700/800/850/900/950/1000/1100/1200/1300/1400/1500/1600/1700/1800/1900/2000/ 2200/2400/2600/2800/3000/3200/3400/3600/3800/4000/4500/5000/5500/6000/6500/ 7000/7500/8000/9000/10000/11000/12000/13000/14000/15000/16000/17000/18000	☑	☑	☑	Band cutoff frequency setting
	ANLGIN/X/EQ/Y/Q	:	0.25/0.50/1.00/2.00/4.00/8.00/16.00	☑	☑	☑	Band resonance setting
	ANLGIN/X/EQ/HI/GAIN	:	-12～0～+12(1step)	☑	☑	☑	High band Gain setting
	ANLGIN/X/EQ/HI/FREQ	:	1800/1900/2000/2200/2400/2600/2800/3000/3200/3400/3600/3800/4000/4500/5000/ 5500/6000/6500/7000/7500/8000/9000/10000/11000/12000/13000/14000/15000/16000/ 17000/18000	☑	☑	☑	High band cutoff frequency setting
	ANLGIN/X/METER/PRE	:	OFF/ON	☑	☑	☑	Meter data acquisition ON/OFF setting
	ANLGIN/X/METER/POST	:	OFF/ON	☑	☑	☑	Meter data acquisition ON/OFF setting
	ANLGIN/X/METER/SEND	:	OFF/ON	☑	☑	☑	Meter data acquisition ON/OFF setting
	USBIN/X/METER/POST	:	OFF/ON	☑	☑	☑	Meter data acquisition ON/OFF setting
	AESIN/X/NAME	:	"Input1"	☑	☑	☑	Input name (UTF-8 character string inside quotation marks ("") with 96-byte maximum)
	AESIN/X/MUTE	:	OFF/ON	☑	☑	☑	MUTE setting
	AESIN/X/FADER	:	-INF,-127.0～0.0～+10.0	☑	☑	☑	Fader setting
	AESIN/X/METER	:	OFF/ON	☑	☑	☑	Meter data acquisition ON/OFF setting
	DANTEIN/X/NAME	:	"DanteIn1"	☑	☑	☑	Dante name (UTF-8 character string inside quotation marks ("") with 96-byte maximum)
	DANTEIN/X/METER	:	OFF/ON	☑	☑	☑	Meter data acquisition ON/OFF setting

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☑ Supported   ☐ Not supported

Category	Parameter			Command Type			Description
	Key	:	Value	SET	GET	NOTIFY	
Mix	MIX/X/NAME	:	"Mix1"	☑	☑	☑	MIX name
	MIX/X/MUTE	:	OFF/ON	☑	☑	☑	MIX MUTE setting
	MIX/X/FADER	:	-INF,-127.0 ~ +10.0	☑	☑	☑	MIX fader setting
	MIX/X/ANLGIN/Y/MUTE	:	OFF/ON	☑	☑	☑	MIX (X) and ANALOG IN (Y) Mute settings
	MIX/X/ANLGIN/Y/FADER	:	-INF,-127.0 ~ +10.0	☑	☑	☑	MIX (X) and ANALOG IN (Y) fader settings
	MIX/X/USBIN/Y/MUTE	:	OFF/ON	☑	☑	☑	MIX (X) and USB IN (Y) Mute settings
	MIX/X/USBIN/Y/FADER	:	-INF,-127.0 ~ +10.0	☑	☑	☑	MIX (X) and USB IN (Y) fader settings
	MIX/X/DANTEIN/Y/MUTE	:	OFF/ON	☑	☑	☑	MIX (X)and DANTE IN (Y) Mute settings
	MIX/X/DANTEIN/Y/FADER	:	-INF,-127.0 ~ +10.0	☑	☑	☑	MIX (X) and DANTE IN (Y) fader settings
	MIX/X/DUCK/ENABLE	:	OFF/ON	☑	☑	☑	Ducking ON/OFF setting
	MIX/X/DUCK/SRC		INPUT1/INPUT2/INPUT3/INPUT4/INPUT5/INPUT6/INPUT7/INPUT8/ MIX1/MIX2/MIX3/MIX4/MIX5/MIX6/MIX7/MIX8/ DANTE1/DANTE2/DANTE3/DANTE4	☑	☑	☑	Ducking source setting
	MIX/X/DUCK/THRE	:	-30/-24/-18/-12/-6	☑	☑	☑	Ducking threshold setting
	MIX/X/DUCK/ATT	:	0/-3/-6/-9/-12/-18/-24/-INF	☑	☑	☑	Ducking Attenuate setting
	MIX/X/DUCK/REL	:	0.1/0.5/1.0/1.5/2.0/2.5/3.0/3.5/4.0/4.5/5.0	☑	☑	☑	Ducking Release time setting
	MIX/X/ANC/ENABLE	:	OFF/ON	☑	☑	☑	ANC (Ambient Noise Compensator) function setting
	MIX/X/ANC/SRC		INPUT1/INPUT2/INPUT3/INPUT4/INPUT5/INPUT6/INPUT7/INPUT8/ MIX1/MIX2/MIX3/MIX4/MIX5/MIX6/MIX7/MIX8/ DANTE1/DANTE2/DANTE3/DANTE4	☑	☑	☑	ANC source setting
	MIX/X/ANC/THRE	:	-60 ~ 0(1step)	☑	☑	☑	ANC threshold setting
	MIX/X/ANC/MAXGAIN	:	0 ~ 20	☑	☑	☑	ANC maximum input signal level adjustment setting
	MIX/X/ANC/MINGAIN	:	-20 ~ 0	☑	☑	☑	ANC minimum input signal level adjustment setting
	MIX/X/ANC/RATIO	:	0.5 ~ 2.0(0.1step)	☑	☑	☑	ANC input signal level adjustment ratio setting
	MIX/X/ANC/TIME	:	1 ~ 60	☑	☑	☑	ANC input signal level adjustment response speed setting
	MIX/X/ANC/GAP/THRE	:	-60 ~ 0	☑	☑	☑	ANC GAP threshold setting
	MIX/X/ANC/GAP/TIME	:	0.1 ~ 10.0(0.1step)	☑	☑	☑	ANC GAP judgment time setting
	MIX/X/METER	:	OFF/ON	☑	☑	☑	Meter data acquisition ON/OFF setting
	USBOUT/X/ANLGIN/Y/MUTE	:	OFF/ON	☑	☑	☑	USB OUT (X) and ANALOG IN (Y) Mute settings
	USBOUT/X/ANLGIN/Y/FADER	:	-INF,-127.0 ~ +10.0	☑	☑	☑	USB OUT (X) and ANALOG IN (Y) Fader setting
	USBOUT/X/USBIN/Y/MUTE	:	OFF/ON	☑	☑	☑	USB OUT (X) and ANALOG IN (Y) Mute settings
	USBOUT/X/USBIN/Y/FADER	:	-INF,-127.0 ~ +10.0	☑	☑	☑	USB OUT (X) and USBIN IN (Y) fader settings
	USBOUT/X/METER	:	OFF/ON	☑	☑	☑	Meter data acquisition ON/OFF setting

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☑ Supported ☐ Not supported

Category	Parameter			Command Type			Description
	Key	:	Value	SET	GET	NOTIFY	
Output	ANLGOUT/X/NAME	:	"Output1"	☑	☑	☑	Output name
	ANLGOUT/X/MUTE	:	OFF/ON	☑	☑	☑	Output MUTE setting
	ANLGOUT/X/ROUTING	:	MIX1/MIX2/MIX3/MIX4/MIX5/MIX6/MIX7/MIX8/ DANTE1/DANTE2/DANTE3/DANTE4/ ANALOG1/ANLOG2/ANALOG3/ANALOG4/DISCONNECT	☑	☑	☑	Output routing setting
	ANLGOUT/X/FADER	:	-INF,-127.0 - +10.0	☑	☑	☑	Output fader setting
	ANLGOUT/X/PHASE	:	NOR/INV	☑	☑	☑	Output Phase setting
	ANLGOUT/X/EQ/ENABLE	:	OFF/ON	☑	☑	☑	EQ ON/OFF setting
	ANLGOUT/X/EQ/LO/GAIN	:	-12 - +12(1step)	☑	☑	☑	Low band Gain setting
	ANLGOUT/X/EQ/LO/FREQ	:	32/40/50/60/70/80/90/100/125/150/175/200/225/250/300/350/400/450/500/600/ 700/800/850/900/950/1000/1100/1200/1300/1400/1500/1600/1700/1800/1900/2000/ 2200/2400/2600/2800/3000/3200/3400/3600/3800/4000/4500/5000/5500/6000/6500/ 7000/7500/8000/9000/10000/11000/12000/13000/14000/15000/16000/17000/18000	☑	☑	☑	Low band cutoff frequency setting
	ANLGOUT/X/EQ/LOWCUT	:	OFF/ON	☑	☑	☑	Low Cut setting
	ANLGOUT/X/EQ/Y/GAIN	:	-12 - +12(1step)	☑	☑	☑	Band Y Gain setting
	ANLGOUT/X/EQ/Y/FREQ	:	32/40/50/60/70/80/90/100/125/150/175/200/225/250/300/350/400/450/500/600/ 700/800/850/900/950/1000/1100/1200/1300/1400/1500/1600/1700/1800/1900/2000/ 2200/2400/2600/2800/3000/3200/3400/3600/3800/4000/4500/5000/5500/6000/6500/ 7000/7500/8000/9000/10000/11000/12000/13000/14000/15000/16000/17000/18000	☑	☑	☑	Band Y cutoff frequency setting
	ANLGOUT/X/EQ/Y/Q	:	0.25/0.50/1.00/2.00/4.00/8.00/16.00	☑	☑	☑	Band Y resonance setting
	ANLGOUT/X/EQ/HI/GAIN	:	-12 - +12(1step)	☑	☑	☑	High band Gain setting
	ANLGOUT/X/EQ/HI/FREQ	:	32/40/50/60/70/80/90/100/125/150/175/200/225/250/300/350/400/450/500/600/ 700/800/850/900/950/1000/1100/1200/1300/1400/1500/1600/1700/1800/1900/2000/ 2200/2400/2600/2800/3000/3200/3400/3600/3800/4000/4500/5000/5500/6000/6500/ 7000/7500/8000/9000/10000/11000/12000/13000/14000/15000/16000/17000/18000	☑	☑	☑	High band cutoff frequency setting
	ANLGOUT/X/EQ/HIGHCUT	:	OFF/ON	☑	☑	☑	High Cut setting
	ANLGOUT/X/DELAY/ENABLE	:	OFF/ON	☑	☑	☑	Delay Time ON/OFF setting
	ANLGOUT/X/DELAY/TIME	:	0 - 300msec(0.02msec step)	☑	☑	☑	Delay Time setting
	ANLGOUT/X/LIMIT/ENABLE	:	OFF/ON	☑	☑	☑	Delay Time setting
	ANLGOUT/X/LIMIT/THRE	:	-54 - 0(1step)	☑	☑	☑	Limiter threshold setting
	ANLGOUT/X/LIMIT/METER	:	OFF/ON	☑	☑	☑	Meter data acquisition ON/OFF setting
	ANLGOUT/X/TESTTONE	:	OFF/ON	☑	☑	☑	TEST TONE ON/OFF
	ANLGOUT/X/METER	:	OFF/ON	☑	☑	☑	Meter data acquisition ON/OFF setting
	AESOUT/X/NAME	:	"Output1"	☑	☑	☑	Output name
	AESOUT/X/MUTE	:	OFF/ON	☑	☑	☑	Output MUTE setting
	AESOUT/X/FADER	:	-INF,-127.0 - +10.0	☑	☑	☑	Fader setting
	AESOUT/X/METER	:	OFF/ON	☑	☑	☑	Meter data acquisition ON/OFF setting
	DANTEOUT/X/NAME	:	"DANTEOUT1"	☑	☑	☑	DANTE name
	DANTEOUT/X/METER	:	OFF/ON	☑	☑	☑	Meter data acquisition ON/OFF setting
	DANTEOUT/X/ROUTING	:	MIX1/MIX2/MIX3/MIX4/MIX5/MIX6/MIX7/MIX8/ DANTE1/DANTE2/DANTE3/DANTE4/ ANALOG1/ANLOG2/ANALOG3/ANALOG4/DISCONNECT	☑	☑	☑	Dante OUT routing setting

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☑ Supported　　☐ Not supported

Category	Key	:	Value	SET	GET	NOTIFY	Description
Test Tone	TESTTONE/ENABLE	:	OFF/ON	☑	☑	☑	Test Tone Mode ON/OFF setting
	TESTTONE/PATT	:	SINE/WHITE/PINK	☑	☑	☑	Test Pattern setting
	TESTTONE/FREQ	:	32/40/50/60/70/80/90/100/125/150/175/200/225/250/300/350/400/450/500/600/700/800/850/900/950/1000/1100/1200/1300/1400/1500/1600/1700/1800/1900/2000/2200/2400/2600/2800/3000/3200/3400/3600/3800/4000/4500/5000/5500/6000/6500/7000/7500/8000/9000/10000/11000/12000/13000/14000/15000/16000/17000/18000	☑	☑	☑	Test Tone frequency setting
	TESTTONE/GAIN	:	-127 – 0(1Step)	☑	☑	☑	Test Tone volume setting
GPI	GPI/SWITCH/X/ASSIGN/Y	:	DISABLE/IN1-4/MIXmANLGINn/MIXmDANTEINn/MIX1-4/OUT1-4	☑	☑	☑	GPI Switch connector assignment setting
	GPI/SWITCH/X/MODE	:	TOGGLE/HOLD_ON/HOLD_OFF	☑	☑	☑	GPI Switch connector operation mode setting
	GPI/LED/X/MODE	:	MUTE_ON/MUTE_OFF	☑	☑	☑	GPI Switch connector operation mode setting
	GPI/CONTROL/X/ASSIGN/Y	:	DISABLE/IN1-4/MIXmANLGINn/MIXmDANTEINn/MIX1-4/OUT1-4	☑	☑	☑	GPI Control connector control assignment setting
System	DEVICE/NAME	:	"MX-8A"	☐	☑	☐	Device name (20-byte maximum)
	DEVICE/MODELNAME	:	"MX-8A"	☑	☑	☑	Model name (20-byte maximum)
	DEVICE/VER/SYSTEM	:	V1.00B0010	☐	☑	☐	Device Version
	DEVICE/SERIAL	:	XXXXXXXX	☐	☑	☐	Device Serial Number
	DEVICE/SAMPLE	:	44100/48000	☐	☑	☑	Device sampling frequency
	DEVICE/RESET	:	FACT/BOOT/PARAM	☑	☐	☐	Device reset (factory default/reboot)
	DEVICE/IDENTIFY	:	EXE	☑	☐	☐	IDENTIFY command (confirm connection from app)
	DEVICE/REFLEVEL	:	24/22/20/18/15	☑	☑	☑	Reference level setting
	DEVICE/MIXERMODE	:	DIRECT/MIXER	☑	☑	☑	Switch between MIXER and DIRECT modes
	DEVICE/WALLCON/PWR	:	OFF/ON	☑	☑	☑	Turn power supply for wall outlet (24V) ON/OFF
	LED/BRIGHT	:	0 – 8	☑	☑	☑	LED brightness adjustment
	NETWORK/PASS	:	"MX-8A"	☑	☑	☑	Network password (20-byte maximum)
	NETWORK/DHCP/ENABLE	:	OFF/ON	☑	☑	☑	DHCP ON/OFF
	NETWORK/DHCP/SUB	:	255.255.255.000	☐	☑	☐	DHCP ON時のSubnet Mask
	NETWORK/DHCP/GATE	:	000.000.000.000	☐	☑	☐	DHCP ON時のDefault Gateway
	NETWORK/IP	:	192.168.100.100	☑	☑	☑	Network IP Address
	NETWORK/SUB	:	255.255.255.000	☑	☑	☑	Subnet Mask
	NETWORK/GATE	:	000.000.000.000	☑	☑	☑	Default Gateway
	NETWORK/MAC	:	00022EXXXXXX	☐	☑	☐	MAC address
	REMOTE/232/BAUD	:	4800/9600/19200/38400/57600	☑	☑	☑	RS-232C Baud Rate
	REMOTE/232/PALI	:	NONE/ODD/EVEN	☑	☑	☑	RS-232C Pality Bit
	REMOTE/232/STOP	:	1/2	☑	☑	☑	RS-232C Stop Bit
	REMOTE/232/LEN	:	7/8	☑	☑	☑	RS-232C Data Length
Meter	METER/INTERVAL	:	100 – TOTAL(step:1ms)	☑	☐	☐	Meter data notification interval (100msec minimum)
	METER/TOTAL	:	0(Off) – 86400000(step:1ms)	☑	☐	☐	Meter data total notification time (24-hour maximum)

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4. Command list
   4.1 INPUT

● Analog input channel name

Use this to set the analog input channel name.

Command types: GET, SET, NOTIFY

Key	ANLGIN/{ia}/NAME	{ia}: analog input channel number
Value	UTF-8 character string of 96 bytes or less inside quotation marks (″(0x22))	

● Analog input channel mute

Use this to set analog input channel muting.

Command types: GET, SET, NOTIFY

Key	ANLGIN/{ia}/MUTE	{ia}: analog input channel number
Value	OFF	Mute: off
	ON	Mute: on

● Analog input channel fader

Use this to set the analog input channel fader.

Command types: GET, SET, NOTIFY

Key	ANLGIN/{ia}/FADER	{ia}: analog input channel number
Value	-INF	Negative infinity (muted)
	-127.0 - 0.0 - +10.0	dB in 0.1dB increments

● Analog input channel LINE/MIC select

Use this to set the Analog input LINE/MIC selection setting.

Command types: GET, SET, NOTIFY

Key	ANLGIN/{ia}/SEL	{ia}: analog input channel number
Value	LINE	Line input
	MIC	Mic input

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● Analog (mic) input channel phantom power

Use this to set the analog (mic) input phantom power.

Command types: GET, SET, NOTIFY

Key	ANLGIN/{ia}/PHANT	{ia}: analog input channel number

Value	OFF	Phantom power off
	ON	Phantom power on

● Analog (mic) input channel pad

Use this to set the analog (mic) input channel pad.

Command types: GET, SET, NOTIFY

Key	ANLGIN/{ia}/PAD	{ia}: analog input channel number

Value	OFF	PAD off
	ON	PAD on

● Analog (mic) input channel gain

Use this to set the analog (mic) input channel gain.

Command types: GET, SET, NOTIFY

Key	ANLGIN/{ia}/GAIN	{ia}: analog input channel number

Value	LOW	Mic gain LOW
	HIGH	Mic gain HIGH

● Analog input channel trim

Use this to set the analog input channel trim.

Command types: GET, SET, NOTIFY

Key	ANLGIN/{ia}/TRIM	{ia}: analog input channel number

Value   When LINE/MIC select is LINE

+10.0 - -10.0	dB in 0.5dB increments

When LINE/MIC select is MIC

MX-8A	+36.0 - 0	dB in 0.5dB increments
MM-4D/IN	+33.0 - 0	dB in 0.5dB increments
Other	+36.5 - 0	dB in 0.5dB increments

● Analog input channel phase

Use this to set the analog input channel phase.

Command types: GET, SET, NOTIFY

Key	ANLGIN/{ia}/PHASE	{ia}: analog input channel number

Value	NOR	Normal (in phase)
	INV	Inverse (phase reversed)

● Analog input channel ALC enable

Use this to set the analog input channel automatic level control function.

Command types: GET, SET, NOTIFY

Key	ANLGIN/{ia}/ALC	{ia}: analog input channel number

Value	OFF	ALC off
	ON	ALC on

● Analog input channel compressor enable

Use this to turn the analog input channel compressor on/off.

Command types: GET, SET, NOTIFY

Key	ANLGIN/{ia}/COMP/ENABLE	{ia}: analog input channel number

Value	OFF	Compressor off
	ON	Compressor on

● Analog input channel compressor threshold

Use this to set the analog input channel compressor threshold.

Command types: GET, SET, NOTIFY

Key	ANLGIN/{ia}/COMP/THRE	{ia}: analog input channel number

Value	−32 − 0	dB in 1dB increments

● Analog input channel compressor ratio

Use this to set the analog input channel compressor ratio.

Command types: GET, SET, NOTIFY

Key	ANLGIN/{ia}/COMP/RATIO	{ia}: analog input channel number	
Value	1, 1.1, 1.3, 1.5, 1.7, 2, 2.5, 3, 3.5, 4, 5, 6, 8, 16	Compression ratio (input/output)	
	1000	Infinite compression ratio	

● Analog input channel compressor gain

Use this to set the analog input channel compressor gain.

Command types: GET, SET, NOTIFY

Key	ANLGIN/{ia}/COMP/GAIN	{ia}: analog input channel number
Value	0 - 20	[dB], 1 step

● Analog input channel compressor attack time

Use this to set the analog input channel compressor attack time.

Command types: GET, SET, NOTIFY

Key	ANLGIN/{ia}/COMP/ATK	{ia}: analog input channel number
Value	2 - 200	ms in 2ms increments

● Analog input channel compressor release time

Use this to set the analog input channel compressor release time.

Command types: GET, SET, NOTIFY

Key	ANLGIN/{ia}/COMP/REL	{ia}: analog input channel number
Value	10 - 1000	ms in 10ms increments

● Analog input channel compressor meter enable

Use this to turn the analog input channel compressor meter data acquisition on/off. If on, when a "meter acquisition" command is issued, the compressor meter data will be sent.

Command types: GET, SET, NOTIFY

Key	ANLGIN/{ia}/COMP/METER	{ia}: analog input channel number
Value	OFF	Meter acquisition off
	ON	Meter acquisition on

● Analog input channel equalizer enable

Use this to enable/disable the analog input channel equalizer.

Command types: GET, SET, NOTIFY

Key	ANLGIN/{ia}/EQ/ENABLE	{ia}: analog input channel number

Value	OFF	Equalizer off
	ON	Equalizer on

● Analog input channel equalizer low band gain

Use this to set the low band gain for the analog input channel equalizer. When low cut is on, this setting has no effect.

Command types: GET, SET, NOTIFY

Key	ANLGIN/{ia}/EQ/LO/GAIN	{ia}: analog input channel number

Value	-12 - 0 - +12	dB in 1dB increments

● Analog input channel equalizer low band frequency

Use this to set the low band frequency for the analog input channel equalizer.

Command types: GET, SET, NOTIFY

Key	ANLGIN/{ia}/EQ/LO/FREQ	{ia}: analog input channel number

Value	32, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 300, 350, 400, 450, 500, 600, 700, 800, 850, 900, 950, 1000, 1100, 1200, 1300, 1400, 1500, 1600	[Hz]

● Analog input channel equalizer mid band gain

Use this to set the mid band gain for the analog input channel equalizer.

Command types: GET, SET, NOTIFY

Key	ANLGIN/{ia}/EQ/{x}/GAIN	{ia}: analog input channel number {x}: band name (1, 2)

Value	-12 - 0 - +12	dB in 1dB increments

● Analog input channel equalizer band low-cut enable

Use this to make the equalizer low band into a low cut filter for the analog input channel.

Command types: GET, SET, NOTIFY

Key	ANLGIN/{ia}/EQ/LOWCUT	{ia}: analog input channel number

Value	OFF	Low cut off (shelving EQ mode)
	ON	Low cut on

● Analog input channel equalizer mid band frequency

Use this to set the mid band frequency for the analog input channel equalizer.

Command types: GET, SET, NOTIFY

Key	ANLGIN/{ia}/EQ/{x}/FREQ	{ia}: analog input channel number
		{x}: band name (1, 2)

Value	32, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 300, 350, 400, 450, 500, 600, 700, 800, 850, 900, 950, 1000, 1100, 1200, 1300, 1400, 1500, 1600, 1700, 1800, 1900, 2000, 2200, 2400, 2600, 2800, 3000, 3200, 3400, 3600, 3800, 4000, 4500, 5000, 5500, 6000, 6500, 7000, 7500, 8000, 9000, 10000, 11000, 12000, 13000, 14000, 15000, 16000, 17000, 18000	[Hz]

● Analog input channel equalizer mid band Q

Use this to set the mid band Q for the analog input channel equalizer.

Command types: GET, SET, NOTIFY

Key	ANLGIN/{ia}/EQ/{x}/Q	{ia}: analog input channel number
		{x}: band name (1, 2)

Value	0.25, 0.50, 1.00, 2.00, 4.00, 8.00, 16.00	Q value

● Analog input channel equalizer high band gain

Use this to set the high band gain for the analog input channel equalizer.

Command types: GET, SET, NOTIFY

Key	ANLGIN/{ia}/EQ/HI/GAIN	{ia}: analog input channel number

Value	-12 - 0 - +12	dB in 1dB increments

● Analog input channel equalizer high band frequency

Use this to set the high band frequency for the analog input channel equalizer.

Command types: GET, SET, NOTIFY

Key	ANLGIN/{ia}/EQ/HI/FREQ	{ia}: analog input channel number

Value	1800, 1900, 2000, 2200, 2400, 2600, 2800, 3000, 3200, 3400, 3600, 3800, 4000, 4500, 5000, 5500, 6000, 6500, 7000, 7500, 8000, 9000, 10000, 11000, 12000, 13000, 14000, 15000, 16000, 17000, 18000	[Hz]

● Analog input channel pre meter enable

Use this to turn analog input channel pre meter data acquisition on/off. If on, when a "meter acquisition" command is issued, the compressor meter data will be sent.

Command types: GET, SET, NOTIFY

Key	ANLGIN/{ia}/METER/PRE	{ia}: analog input channel number

Value	OFF	Meter acquisition off
	ON	Meter acquisition on

● Analog input channel post meter enable

Use this to turn analog input channel post meter data acquisition on/off. If on, when a "meter acquisition" command is issued, the compressor meter data will be sent.

Command types: GET, SET, NOTIFY

Key	ANLGIN/{ia}/METER/POST	{ia}: analog input channel number

Value	OFF	Meter acquisition off
	ON	Meter acquisition on

● Analog input channel send meter enable

Use this to turn mixer bus send meter data acquisition on/off for the analog input channel. If on, when a "meter acquisition" command is issued, the compressor meter data will be sent.

Command types: GET, SET, NOTIFY

Key	ANLGIN/{ia}/METER/SEND	{ia}: analog input channel number

Value	OFF	Meter acquisition off
	ON	Meter acquisition on

● USB input channel post meter enable

Use this to turn USB input channel post meter data acquisition on/off. If on, when a "meter acquisition" command is issued, the compressor meter data will be sent.

Command types: GET, SET, NOTIFY

Key	USBIN/{iu}/METER/POST	{iu}: USB input channel number

Value	OFF	Meter acquisition off
	ON	Meter acquisition on

● AES input channel name

Use this to set the AES input channel name.

Command types: GET, SET, NOTIFY

Key	AESIN/{ie}/NAME	{ie}: USB input channel number

Value	UTF-8 character string of 96 bytes or less inside quotation marks (″(0x22))

● AES input channel mute

Use this to set the AES input channel muting.

Command types: GET, SET, NOTIFY

Key	AESIN/{ie}/MUTE	{ie}: USB input channel number

Value	OFF	Mute: off
	ON	Mute: on

● AES input channel fader

Use this to set the AES input channel fader setting.

Command types: GET, SET, NOTIFY

Key	AESIN/{ie}/FADER	{ie}: USB input channel number

Value	-INF	Negative infinity (muted)
	-127.0 - 0.0 - +10.0	dB in 0.1dB increments

● AES input channel meter enable

Use this to turn AES input channel meter data acquisition on/off. If on, when a "meter acquisition" command is issued, the compressor meter data will be sent.

Command types: GET, SET, NOTIFY

Key	AESIN/{ie}/METER	{ie}: AES input channel number
Value	OFF	Meter acquisition off
	ON	Meter acquisition on

● Dante input channel name

Use this to set the Dante input channel name.

Command types: GET, SET, NOTIFY

Key	DANTEIN/{id}/NAME	{id}: Dante input channel number

Value   UTF-8 character string of 96 bytes or less inside quotation marks ("(0x22))

● Dante input meter enable

Use this to turn Dante input signal meter data acquisition on/off. If on, when a "meter acquisition" command is issued, the compressor meter data will be sent.

Command types: GET, SET, NOTIFY

Key	DANTEIN/{id}/METER	{id}: Dante input channel number
Value	OFF	Meter acquisition off
	ON	Meter acquisition on

4.2 MIX

● Mix bus name

Use this to set a mix bus name.

Command types: GET, SET, NOTIFY

Key	MIX/{m}/NAME	{m}: mix bus number

Value	UTF-8 character string of 96 bytes or less inside quotation marks ("(0x22))

● Mix bus mute

Use this to set mix bus muting.

Command types: GET, SET, NOTIFY

Key	MIX/{m}/MUTE	{m}: mix bus number

Value	OFF	Mute: off
	ON	Mute: on

● Mix bus fader

Use this to set a mix bus fader.

Command types: GET, SET, NOTIFY

Key	MIX/{m}/FADER	{m}: mix bus number

Value	-INF	Negative infinity
	-127.0 - 0.0 - +10.0	dB in 0.1dB increments

● Mixer bus analog input channel mute

Use this to set mix bus analog input channel muting.

Command types: GET, SET, NOTIFY

Key	MIX/{m}/ANLGIN/{ia}/MUTE	{m}: mix bus number
		{ia}: analog input channel number

Value	OFF	Mute: off
	ON	Mute: on

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● Mix bus analog input channel fader

Use this to set a mix bus analog input fader.

Command types: GET, SET, NOTIFY

Key	MIX/{m}/ANLGIN/{ia}/FADER	{m}: mix bus number
		{ia}: analog input channel number

Value	-INF	Negative infinity (muted)
	-127.0 - 0.0 - +10.0	dB in 0.1dB increments

● Mix bus USB input channel mute

Use this to set mix bus USB input channel muting.

Command types: GET, SET, NOTIFY

	MIX/{m}/USBIN/{iu}/MUTE	{m}: mix bus number
		{iu}: USB input channel number

Value	OFF	Mute: off
	ON	Mute: on

● Mix bus USB input channel fader

Use this to set mix bus USB input channel fader.

Command types: GET, SET, NOTIFY

	MIX/{m}/USBIN/{iu}/FADER	{m}: mix bus number
		{iu}: USB input channel number

Value	-INF	Negative infinity (muted)
	-127.0 - 0.0 - +10.0	dB in 0.1dB increments

● Mix bus DANTE input channel mute

Use this to set mix bus DANTE input channel muting.

Command types: GET, SET, NOTIFY

	MIX/{m}/DANTEIN/{id}/MUTE	{m}: mix bus number
		{id}: DANTE input channel number

Value	OFF	Mute: off
	ON	Mute: on

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● Mix bus DANTE input channel fader

Use this to set a mix bus DANTE input channel fader.

Command types: GET, SET, NOTIFY

MIX/{m}/DANTEIN/{id}/FADER	{m}: mix bus number
	{id}: DANTE input channel number

Value	-INF	Negative infinity (muted)
	-127.0 - 0.0 - +10.0	dB in 0.1dB increments

● Mix bus ducking enable

Use this to enable/disable mix bus ducking.

Command types: GET, SET, NOTIFY

Key	MIX/{m}/DUCK/ENABLE	{m}: mix bus number

Value	OFF	Ducking off
	ON	Ducking on

● Mix bus ducking source

Use this to set the mix bus ducking source.

Command types: GET, SET, NOTIFY

Key	MIX/{m}/DUCK/SRC	{m}: mix bus number

Value	INPUT{ia}	Select the analog input
		{ia}: analog input channel number
	MIX{m*}	Select the mix bus output
		{m*}: mix bus number
		Note: m ≠ m*
	DANTE{id}	Select the DANTE input
		{id}: DANTE input channel number

● Mix bus ducking threshold

Use this to set the mix bus ducking threshold.

Command types: GET, SET, NOTIFY

Key	MIX/{m}/DUCK/THRE	{m}: mix bus number

Value	-30, -24, -18, -12, -6	[dBFS]

● Mix bus ducking attenuation

Use this to set the mix bus ducking attenuation.

Command types: GET, SET, NOTIFY

Key	MIX/{m}/DUCK/ATT	{m}: mix bus number

Value	0, -3, -6, -9, -12, -18, -24,	[dB]
	-INF	Negative infinity (muted)

● Mix bus ducking release time

Use this to set the mix bus ducking release time.

Command types: GET, SET, NOTIFY

Key	MIX/{m}/DUCK/REL	{m}: mix bus number

Value	0.1, 0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0	[sec]

● Mix bus ANC enable

Use this to turn the mix bus ANC (Ambient Noise Compensator) function on/off.

Command types: GET, SET, NOTIFY

Key	MIX/{m}/ANC/ENABLE	{m}: mix bus number

Value	OFF	ANC off
	ON	ANC on

● Mix bus ANC source

Use this to set the mix bus ANC source.

Command types: GET, SET, NOTIFY

Key	MIX/{m}/ANC/SRC	{m}: mix bus number

Value	INPUT{ia}	Analog input channel {ia}: analog input channel number
	MIX{m*}	Mix bus {m*}: mix bus number Note: m ≠ m*
	DANTE{id}	DANTE input channel {id}: DANTE input channel number

● Mix bus ANC threshold

Use this to set the mix bus ANC threshold.

Command types: GET, SET, NOTIFY

Key	MIX/{m}/ANC/THRE	{m}: mix bus number
Value	-60 - 0	dBFS in 1dB increments

● Mix bus ANC max gain

Use this to set the mix bus ANC maximum gain.

Command types: GET, SET, NOTIFY

Key	MIX/{m}/ANC/MAXGAIN	{m}: mix bus number
Value	0 - 20	dB in 1dB increments

● Mix bus ANC min gain

Use this to set the mix bus ANC minimum gain.

Command types: GET, SET, NOTIFY

Key	MIX/{m}/ANC/MINGAIN	{m}: mix bus number
Value	-20 - 0	dB in 1dB increments

● Mix bus ANC ratio

Use this to set the mix bus ANC gain ratio.

Command types: GET, SET, NOTIFY

Key	MIX/{m}/ANC/RATIO	{m}: mix bus number
Value	0.5 - 2.0	Gain/(Input level - Threshold)

● Mix bus ANC response time

Use this to set the mix bus ANC gain adjustment response time.

Command types: GET, SET, NOTIFY

Key	MIX/{m}/ANC/TIME	{m}: mix bus number
Value	1 - 60	Seconds in 1-sec increments

● Mix bus ANC gap threshold

Use this to set the mix bus gap threshold.

Command types: GET, SET, NOTIFY

Key	MIX/{m}/ANC/GAP/THRE	{m}: mix bus number
Value	-60 - 0	dB in 1dB increments

● Mix bus ANC gap time

Use this to set the mix bus ANC gap release judgment time.

Command types: GET, SET, NOTIFY

Key	MIX/{m}/ANC/GAP/TIME	{m}: mix bus number
Value	0.1 - 10.0	Seconds in 0.1-sec increments

● Mix bus meter enable

Use this to turn mix bus meter data acquisition on/off. If on, when a Meter interval/Meter total time command is issued, the compressor meter data will be sent.

Command types: GET, SET, NOTIFY

Key	MIX/{m}/METER	{m}: mix bus number
Value	OFF	Meter acquisition off
	ON	Meter acquisition on

● USB OUT mix bus analog input mute

Use this to set USB OUT mix bus analog input channel muting.

Command types: GET, SET, NOTIFY

	USBOUT/{ou}/ANLGIN/{ia}/MUTE	{ou}:USB bus number (1 = L, 2 = R)
		{ia}: analog input channel number
Value	OFF	Mute: off
	ON	Mute: on

● USB OUT mix bus analog input fader

Use this to set a USB OUT mix bus analog input channel fader.

Command types: GET, SET, NOTIFY

| USBOUT/{ou}/ANLGIN/{ia}/FADER | {ou}:USB bus number (1 = L, 2 = R) |
| | {ia}: analog input channel number |

Value		
	-INF	Negative infinity (muted)
	-127.0 - 0.0 - +10.0	dB in 0.1dB increments

● USB OUT mix bus USB input mute

Use this to set USB OUT mix bus USB input channel muting.

Command types: GET, SET, NOTIFY

| USBOUT/{ou}/USBIN/{iu}/MUTE | {ou}:USB bus number (1 = L, 2 = R) |
| | {iu}: USB input channel number |

Value		
	OFF	Mute: off
	ON	Mute: on

● USB OUT mix bus USB input fader

Use this to set a USB OUT mix bus USB input channel fader.

Command types: GET, SET, NOTIFY

| USBOUT/{ou}/USBIN/{iu}/FADER | {ou}:USB bus number (1 = L, 2 = R) |
| | {iu}: USB input channel number |

Value		
	-INF	Negative infinity (muted)
	-127.0 - 0.0 - +10.0	dB in 0.1dB increments

● USB OUT mix bus meter enable

Use this to turn USB OUT mix bus meter data acquisition on/off. If on, when a Meter interval/Meter total time command is issued, the compressor meter data will be sent.

Command types: GET, SET, NOTIFY

| Key | USBOUT/{ou}/METER | {ou}:USB bus number (1 = L, 2 = R) |

Value		
	OFF	Meter acquisition off
	ON	Meter acquisition on

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4.3 Output

● Analog output channel name

Use this to set the analog output channel name.

Command types: GET, SET, NOTIFY

Key	ANLGOUT/{oa}/NAME	{oa}: analog output channel number
Value	UTF-8 character string of 96 bytes or less inside quotation marks (″(0x22))	

● Analog output channel mute

Use this to set analog output channel muting.

Command types: GET, SET, NOTIFY

Key	ANLGOUT/{oa}/MUTE	{oa}: analog output channel number
Value	OFF	Mute: off
	ON	Mute: on

● Analog output channel routing

Use this to set analog output channel routing (source selection).

Command types: GET, SET, NOTIFY

Key	ANLGOUT/{oa}/ROUTING	{oa}: analog output channel number
Value	MIX{m}	Select a mix bus as a source {m}: mix bus number
	DANTE{id}	Select a DANTE input as a source {id}: DANTE input channel number
	ANALOG{ia}	Select an analog input channel as a source {ia}: analog input channel number
	DISCONNECT	Select no source (mute)

● Analog output channel fader

Use this to set an analog output signal fader.

Command types: GET, SET, NOTIFY

Key	ANLGOUT/{oa}/FADER	{oa}: analog output channel number
Value	-INF	Negative infinity (muted)
	-127.0 - 0.0 - +10.0	dB in 0.1dB increments

● Analog output channel phase

Use this to set the analog output channel phase.

Command types: GET, SET, NOTIFY

Key	ANLGOUT/{oa}/PHASE	{oa}: analog output channel number

Value	NOR	Normal (in phase)
	INV	Inverse (phase reversed)

● Analog output channel equalizer enable

Use this to enable/disable the analog output channel equalizer.

Command types: GET, SET, NOTIFY

Key	ANLGOUT/{oa}/EQ/ENABLE	{oa}: analog output channel number

Value	OFF	Equalizer off
	ON	Equalizer on

● Analog output channel equalizer low band gain

Use this to set the low band gain for the analog output channel equalizer.

Command types: GET, SET, NOTIFY

Key	ANLGOUT/{oa}/EQ/LO/GAIN	{oa}: analog output channel number

Value	-12 - 0 - +12	[dB], 1 step

● Analog output channel equalizer low band frequency

Use this to set the low band frequency for the analog output channel equalizer.

Command types: GET, SET, NOTIFY

Key	ANLGOUT/{oa}/EQ/LO/FREQ	{oa}: analog output channel number

Value	32, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 300, 350, 400, 450, 500, 600, 700, 800, 850, 900, 950, 1000, 1100, 1200, 1300, 1400, 1500, 1600, 1700, 1800, 1900, 2000, 2200, 2400, 2600, 2800, 3000, 3200, 3400, 3600, 3800, 4000, 4500, 5000, 5500, 6000, 6500, 7000, 7500, 8000, 9000, 10000, 11000, 12000, 13000, 14000, 15000, 16000, 17000, 18000	[Hz], 32 - 1600 Hz : Low cut off 32 - 18000 Hz: Low cut on

● Analog output channel equalizer low cut

Use this to change the equalizer low band into a low cut filter for the analog output channel.

Command types: GET, SET, NOTIFY

Key	ANLGOUT/{oa}/EQ/LOWCUT	{oa}: analog output channel number

Value	OFF	Low cut disabled (shelving enabled)
	ON	Low cut enabled

● Analog output channel equalizer mid band gain

Use this to set the mid band gain for the analog output channel equalizer.

Command types: GET, SET, NOTIFY

Key	ANLGOUT/{oa}/EQ/{x}/GAIN	{oa}: analog output channel number {x}: 1-8

Value	-12 - 0 - +12	[dB], 1 step

● Analog output channel equalizer mid band frequency

Use this to set the mid band frequency for the analog output channel equalizer.

Command types: GET, SET, NOTIFY

Key	ANLGOUT/{oa}/EQ/{x}/FREQ	{oa}: analog output channel number {x}: equalizer band number (1 - 8)

Value	32, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 300, 350, 400, 450, 500, 600, 700, 800, 850, 900, 950, 1000, 1100, 1200, 1300, 1400, 1500, 1600, 1700, 1800, 1900, 2000, 2200, 2400, 2600, 2800, 3000, 3200, 3400, 3600, 3800, 4000, 4500, 5000, 5500, 6000, 6500, 7000, 7500, 8000, 9000, 10000, 11000, 12000, 13000, 14000, 15000, 16000, 17000, 18000	[Hz],

● Analog output channel equalizer mid band Q

Use this to set the mid band Q for the analog output channel equalizer.

Command types: GET, SET, NOTIFY

Key	ANLGOUT/{oa}/EQ/{x}/Q	{oa}: analog output channel number {x}: equalizer band number (1 - 8)

Value	0.25, 0.50, 1.00, 2.00, 4.00, 8.00, 16.00	Q value

● Analog output channel equalizer high band gain

Use this to set the high band gain for the analog output channel equalizer.

Command types: GET, SET, NOTIFY

Key	ANLGOUT/{oa}/EQ/HI/GAIN	{oa}: analog output channel number

Value	-12 - 0 - +12	[dB], 1 step

● Analog output channel equalizer high band frequency

Use this to set the high band frequency for the analog output channel equalizer.

Command types: GET, SET, NOTIFY

Key	ANLGOUT/{oa}/EQ/HI/FREQ	{oa}: analog output channel number

Value	32, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 300, 350, 400, 450, 500, 600, 700, 800, 850, 900, 950, 1000, 1100, 1200, 1300, 1400, 1500, 1600, 1700, 1800, 1900, 2000, 2200, 2400, 2600, 2800, 3000, 3200, 3400, 3600, 3800, 4000, 4500, 5000, 5500, 6000, 6500, 7000, 7500, 8000, 9000, 10000, 11000, 12000, 13000, 14000, 15000, 16000, 17000, 18000	[Hz], 1800 - 18000 Hz: High cut off 32 - 18000 Hz: High cut on

● Analog output channel equalizer high cut

Use this to set the high cut of the high band for the analog output channel equalizer.

Command types: GET, SET, NOTIFY

Key	ANLGOUT/{oa}/EQ/HIGHCUT	{oa}: analog output channel number

Value	OFF	High cut disabled (shelving enabled)
	ON	High cut enabled

● Analog output channel delay enable

Use this to enable/disable the analog output channel delay.

Command types: GET, SET, NOTIFY

Key	ANLGOUT/{oa}/DELAY/ENABLE	{oa}: analog output channel number

Value	OFF	Delay off
	ON	Delay on

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● Analog output channel delay time

Use this to set the analog output channel delay time.

Command types: GET, SET, NOTIFY

Key	ANLGOUT/{oa}/DELAY/TIME	{oa}: analog output channel number
Value	0 - 300	msec in 0.02msec increments

● Analog output channel limiter enable

Use this to enable/disable the analog output channel limiter.

Command types: GET, SET, NOTIFY

Key	ANLGOUT/{oa}/LIMIT/ENABLE	{oa}: analog output channel number
Value	OFF	Limiter off
	ON	Limiter on

● Analog output channel limiter threshold

Use this to set the analog output channel limiter threshold.

Command types: GET, SET, NOTIFY

Key	ANLGOUT/{oa}/LIMIT/THRE	{oa}: analog output channel number
Value	-54 - 0	dBFS in 1dB increments

● Analog output channel limiter meter enable

Use this to turn limiter output meter data acquisition on/off for the analog output channel. If on, when a Meter interval/Meter total time command is issued, the compressor meter data will be sent.

Command types: GET, SET, NOTIFY

Key	ANLGOUT/{oa}/LIMIT/METER	{oa}: analog output channel number
Value	OFF	Meter acquisition off
	ON	Meter acquisition on

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● Analog output channel test tone

Use this to set the analog output channel test tone output.

Command types: GET, SET, NOTIFY

Key	ANLGOUT/{oa}/TESTTONE	{oa}: analog output channel number

Value	OFF	Test tone off
	ON	Test tone on
		This outputs a test on through the analog audio output.

● Analog output channel meter enable

Use this to turn analog output channel meter data acquisition on/off. If on, when a Meter interval/Meter total time command is issued, the compressor meter data will be sent.

Command types: GET, SET, NOTIFY

Key	ANLGOUT/{oa}/METER	{oa}: analog output channel number

Value	OFF	Meter acquisition off
	ON	Meter acquisition on

● AES output channel name

Use this to set the AES output channel name.

Command types: GET, SET, NOTIFY

Key	AESOUT/{oe}/NAME	{oe}: AES output channel number
Value	UTF-8 character string of 96 bytes or less inside quotation marks (″(0x22))	

● AES output channel mute

Use this to set AES output channel muting.

Command types: GET, SET, NOTIFY

Key	AESOUT/{oe}/MUTE	{oe}: AES output channel number

Value	OFF	Mute: off
	ON	Mute: on

● AES output channel fader

Use this to set the AES output channel fader.

Command types: GET, SET, NOTIFY

Key	AESOUT/{oe}/FADER	{oe}: AES output channel number

Value	-INF	Negative infinity (muted)
	-127.0 - 0.0 - +10.0	dB in 0.1dB increments

● AES output meter enable

Use this to turn AES output channel meter data acquisition on/off. If on, when a Meter interval/Meter total time command is issued, the compressor meter data will be sent.

Command types: GET, SET, NOTIFY

Key	AESOUT/{oe}/METER	{oe}: AES output channel number

Value	OFF	Meter acquisition off
	ON	Meter acquisition on

● Dante output channel name

Use this to set the Dante output channel name.

Command types: GET, SET, NOTIFY

Key	DANTEOUT/{od}/NAME	{od}: DANTE output channel number

Value   UTF-8 character string of 96 bytes or less inside quotation marks ("(0x22))

● Dante output channel meter enable

Use this to turn Dante output channel meter data acquisition on/off. If on, when a Meter interval/Meter total time command is issued, the compressor meter data will be sent.

Command types: GET, SET, NOTIFY

Key	DANTEOUT/{od}/METER	{od}: DANTE output channel number

Value	OFF	Meter acquisition off
	ON	Meter acquisition on

● Dante output channel routing

Use this to set the Dante output channel routing.

Command types: GET, SET, NOTIFY

Key	DANTEOUT/{od}/ROUTING	{od}: DANTE output channel number

Value	MIX{m}	Select a mix bus as a source {m}: mix bus number
	DANTE{id}	Select a DANTE input as a source {id}: DANTE input channel number
	ANALOG{ia}	Select an analog input channel as a source {ia}: analog input channel number
	DISCONNECT	Select no source (mute)

4.4 Test Tone

● Test tone enable

Use this to enable/disable the test tone.

Command types: GET, SET, NOTIFY

Key	TESTTONE/ENABLE	

Value	OFF	Test tone off
	ON	Test tone on

● Test tone generation pattern

Use this to set the test tone generation pattern.

Command types: GET, SET, NOTIFY

Key	TESTTONE/PATT	

Value	SINE	Sine wave
	WHITE	White noise
	PINK	Pink noise

● Test tone frequency

Use this to set the frequency if the test tone generation pattern is set to SINE.

Command types: GET, SET, NOTIFY

Key	TESTTONE/FREQ	

Value	32, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 300, 350, 400, 450, 500, 600, 700, 800, 850, 900, 950, 1000, 1100, 1200, 1300, 1400, 1500, 1600, 1700, 1800, 1900, 2000, 2200, 2400, 2600, 2800, 3000, 3200, 3400, 3600, 3800, 4000, 4500, 5000, 5500, 6000, 6500, 7000, 7500, 8000, 9000, 10000, 11000, 12000, 13000, 14000, 15000, 16000, 17000, 18000	[Hz]

● Test tone gain

Use this to set the test tone gain. The test tone is generated at full scale.

Command types: GET, SET, NOTIFY

Key	TESTTONE/GAIN	

Value	-127 - 0	dB in 1dB increments

4.5 GPI

● GPI switch assign

Use this to set GPI switch connector operation assignments. (Up to four functions can be assigned to one switch.)

Command types: GET, SET, NOTIFY

Key	GPI/SWITCH/{sw}/ASSIGN/{y}	{sw}: switch connector number
		{y}: assignment number (1 - 4)

Value	DISABLE	No assignment
	IN{ia}	Analog input channel muting
		{ia}: analog input channel number
	MIX{m}ANLGIN{ia}	Mix bus analog input channel muting
		{m}: mix bus number
		{ia}: analog input channel number
	MIX{m}DANTEIN{id}	Mix bus DANTE input channel muting
		{m}: mix bus number
		{id}: analog input channel number
	MIX{m}	Mix bus muting
		{m}: mix bus number
	OUT{oa}	Analog output channel muting
		{oa}: analog output channel number

● GPI switch mode

This sets the GPI switch connector operation mode.

Command types: GET, SET, NOTIFY

Key	GPI/SWITCH/{sw}/MODE	{sw}: switch connector number

Value	TOGGLE	Muting is turned on/off each time the switch is pressed
	HOLD_ON	Muting is turned on while the switch is being pressed.
	HOLD_OFF	Muting is turned off while the switch is being pressed

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● GPI LED mode

This sets the GPI LED connector operation mode.

Command types: GET, SET, NOTIFY

Key	GPI/LED/<u>{led}</u>/MODE	{led}: LED connector number

Value	MUTE_ON	The connected LED lights when muting is on.
	MUTE_OFF	The connected LED lights when muting is off.

● GPI control assign

Use this to set GPI CONTROL connector operation assignments. (Up to four functions can be assigned to one switch.)

Command types: GET, SET, NOTIFY

Key	GPI/CONTROL/<u>{cnt}</u>/ASSIGN/{y}	{cnt}: control connector number {y}: assignment number (1 - 4)

Value	DISABLE	No assignment
	IN{ia}	Analog input channel volume control {ia}: analog input channel number
	MIX{m}ANLGIN{ia}	Mix bus analog input channel volume control {m}: mix bus number {ia}: analog input channel number
	MIX{m}DANTEIN{id}	Mix bus DANTE input channel volume control {m}: mix bus number {id}: analog input channel number
	MIX{m}	Mix bus volume control {m}: mix bus number
	OUT{oa}	Analog output channel volume control {oa}: analog output channel number

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4.6 Meter

● Meter interval

This sets the meter data transmission interval. If this command is sent, the controlled device will keep sending meter data for the time set with Meter total time . For details about data sent from the controlled device, see the meter value list in the Appendix 5.3.

command type SET

key	METER/INTERVAL	
Value	100 - TOTAL	[msec], 1msec step

● Meter total time

This sets the meter data transmission time. If this command is sent, the controlled device will keep sending meter data for the time set. For details about data sent from the controlled device, see the meter value list in the Appendix 5.3.

command type SET

key	METER/INTERVAL	
Value	0(Off) - 86400000	[msec], 1msec step

4.7 System
4.7.1 Device

● Device name

This acquires the model name of the controlled device.

Command type: GET

Key	DEVICE/NAME	

Value   UTF-8 character string of 96 bytes or less inside quotation marks ("(0x22))

● Device nickname

This sets the nickname of the controlled device.

Command types: SET, GET, NOTIFY

Key	DEVICE/NAME	

Value   UTF-8 character string of 96 bytes or less inside quotation marks ("(0x22))

● Device system version

This acquires the version number of the controlled device.

Command type: GET

Key	DEVICE/VER/SYSTEM	
value	V{ver}B{build}	{ver}: version number Ex. 1.01 {build}:: build number Ex. 0082

● Device serial number

This acquires the serial number of the controlled device.

Command type: GET

Key	DEVICE/SERIAL	

Value   8 characters (English alphabet and numbers)

● Device sample rate

This acquires the sample rate of the controlled device.

command type GET, NOTIFY

Key	DEVICE/SAMPLE	
value	44100, 48000, 88200, 96000	[Hz]

● Device reset

This resets the controlled device.

command type SET

Key	DEVICE/RESET	

Value	FACT	This restores factory default settings.
	BOOT	This reboots the unit.

● Device identify

This identifies the controlled device.

For details about operation when identifying, see Appendix 5.2.

command type SET

Key	DEVICE/IDENTIFY	

Value	EXE	

● Device reference level

Use this to set the controlled device reference level (maximum input level).

Command types: SET, GET, NOTIFY

Key	DEVICE/REFLEVEL	

Value	24, 22, 20, 18, 15	Maximum input level [dBu]

● Device mixer mode

This sets the mixer mode of the controlled device.

Command types: SET, GET, NOTIFY

Key	DEVICE/MIXERMODE	

Value	DIRECT	Direct mode (mixer mode off)
	MIXER	Mixer mode

●   Device wall controller power

Set the power supply to the RS-485 wall controller of the controlled device.

Command types: SET, GET, NOTIFY

Key	DEVICE/WALLCON/PWR	

Value	OFF	Power supply off
	ON	Power supply on

●   Device LED brightness

This sets the LED brightness of the controlled device.

Command types: SET, GET, NOTIFY

Key	DEVICE/WALLCON/PWR	

Value	0 - 8	0 : unlit
		8 : maximum

4.7.2 Network

●   Network password

Set the password used to connect to the controlled device from the network.

Command types: SET, GET, NOTIFY

Key	NETWORK/PASS	

Value   UTF-8 character string of 96 bytes or less inside quotation marks ("(0x22))

●   Network DHCP enable

This turns the DHCP function on/off.

Command types: SET, GET, NOTIFY

Key	NETWORK/DHCP/ENABLE	

Value	OFF	DHCP off
	ON	DHCP on

●   Network DHCP subnet address

This acquires the subnet address set by DHCP.

Command type: GET

Key	NETWORK/DHCP/SUB	

Value	xxx.xxx.xxx.xxx	Ex. 255.255.255.0

● Network DHCP default gateway IP address

This acquires the default gateway address set by DHCP.

Command type: GET

Key	NETWORK/DHCP/GATE	
Value	xxx.xxx.xxx.xxx	Ex. 192.168.0.1

● Network IP address

This acquires the device IP address. When DHCP is off, use this to set the IP address.

command type GET, SET, NOTIFY

Key	NETWORK/IP	
Value	xxx.xxx.xxx.xxx	Ex. 192.168.0.10

● Network subnet address

When DHCP is off, use this to set the subnet address.

command type GET, SET, NOTIFY

Key	NETWORK/SUB	
Value	xxx.xxx.xxx.xxx	Ex. 255.255.255.0

● Network default gateway address

When DHCP is off, use this to set the default gateway address.

command type GET, SET, NOTIFY

Key	NETWORK/GATE	
Value	xxx.xxx.xxx.xxx	Ex. 192.168.0.1

● Network MAC address

Use this to acquire the MAC address of the controlled device.

Command type: GET

key	NETWORK/MAX	
Value	xxxxxxxxxxx	Ex. 00022E821710

4.7.3 Remote

● RS-232C baudrate

Use this to set the RS-232C baud rate.

command type GET, SET, NOTIFY

Key	REMOTE/232/BAUD	
Value	4800/9600/19200/38400/57600	[bps]

● RS-232C parity bit

Use this to set the RS-232C parity bit.

command type GET, SET, NOTIFY

Key	REMOTE/232/PALI	
Value	NONE	No parity bit
	ODD	Odd
	EVEN	Even

● RS-232C stop bit

This sets the number of RS-232C stop bits.

command type GET, SET, NOTIFY

Key	REMOTE/232/STOP		
Value	1	Stop bits	1 bit
	2	Stop bits	2 bits

● RS-232C data length

This sets the RS-232C data length.

command type GET, SET, NOTIFY

Key	REMOTE/232/LEN	
Value	7	Data length 7 bits
	8	Data length 8 bits

5．Appendix

   5.1   Commands related to MIX

      For the DCP series, commands related to MIX are only effective when the mixer mode is mix.

      They will be ignored when the mode is direct.

   5.2   Behavior during identification
      MX-8A: Each time the command is sent, the control device will indicate identification for about five seconds.
      DCP Series: Sending the command will turn identification indication on and off.

   5.3   Meter value list

Value	Data[dB]	Value	Data[dB]	Value	Data[dB]
0x0020C49B	−60.0	0x4E054E17	−4.3	0x648299ED	−2.1
0x008273A6	−48.0	0x4EEC95C3	−4.2	0x65AC8C2F	−2.0
0x08138561	−24.0	0x4FD68B07	−4.1	0x66D9F1A8	−1.9
0x101D3F2D	−18.0	0x50C335D3	−4.0	0x680AD492	−1.8
0x2026F30F	−12.0	0x51B29E2F	−3.9	0x693F3F45	−1.7
0x4026E73C	−6.0	0x52A4CC3B	−3.8	0x6A773C39	−1.6
0x40E5124F	−5.9	0x5399C82D	−3.7	0x6BB2D604	−1.5
0x41A5711B	−5.8	0x54919A57	−3.6	0x6CF2175B	−1.4
0x42680A28	−5.7	0x558C4B22	−3.5	0x6E350B13	−1.3
0x432CE40F	−5.6	0x5689E30E	−3.4	0x6F7BBC23	−1.2
0x43F4057E	−5.5	0x578A6AB7	−3.3	0x70C6359F	−1.1
0x44BD7539	−5.4	0x588DEAD1	−3.2	0x721482BF	−1.0
0x45893A13	−5.3	0x59946C2A	−3.1	0x7366AEDB	−0.9
0x46575AF8	−5.2	0x5A9DF7AB	−3.0	0x74BCC56C	−0.8
0x4727DEE6	−5.1	0x5BAA9657	−2.9	0x7616D20D	−0.7
0x47FACCF0	−5.0	0x5CBA514A	−2.8	0x7774E07E	−0.6
0x48D02C3F	−4.9	0x5DCD31BD	−2.7	0x78D6FC9E	−0.5
0x49A8040F	−4.8	0x5EE34105	−2.6	0x7A3D3272	−0.4
0x4A825BB5	−4.7	0x5FFC8890	−2.5	0x7BA78E21	−0.3
0x4B5F3A99	−4.6	0x611911EA	−2.4	0x7D161BF8	−0.2
0x4C3EA838	−4.5	0x6238E6BA	−2.3	0x7E88E865	−0.1
0x4D20AC2A	−4.4	0x635C10C5	−2.2	0x80000000	0.0

Note: If values for Data [dB] and Value other than those in the list are needed, they can be calculated as follows.

   Data [dB] = 20 x log10 (Value (base 10)/(2^31))

   Value (base 10) = (10^(Data [dB])/20)) x (2^31)

5.4 Command device compatibility list

Category	Parameter / Key	☑ Supported	☑* Supported (with channel limit)			☐ Not supported		
		MX-8A	MM-4D X	MM-4D E	ML-4D X	ML-4D E	MM-2D X	MM-2D E	AE-4D
Common	CID	☑	☑	☑	☑	☑	☑	☑	☑
	NOTIFY	☑	☑	☑	☑	☑	☑	☑	☑
Input	ANLGIN/X/NAME	☑	☑	☑	☐	☐	☑*	☑*	☐
	ANLGIN/X/MUTE	☑	☑	☑	☐	☐	☑*	☑*	☐
	ANLGIN/X/FADER	☑	☑	☑	☐	☐	☑*	☑*	☐
	ANLGIN/X/SEL	☑	☑	☑	☐	☐	☑*	☑*	☐
	ANLGIN/X/PHANT	☑	☑	☑	☐	☐	☑*	☑*	☐
	ANLGIN/X/PAD	☑	☑	☑	☐	☐	☑*	☑*	☐
	ANLGIN/X/GAIN	☑	☑	☑	☐	☐	☑*	☑*	☐
	ANLGIN/X/TRIM	☑	☑	☑	☐	☐	☑*	☑*	☐
	ANLGIN/X/PHASE	☑	☑	☑	☐	☐	☑*	☑*	☐
	ANLGIN/X/ALC	☑	☑	☑	☐	☐	☑*	☑*	☐
	ANLGIN/X/COMP/ENABLE	☑	☑	☑	☐	☐	☑*	☑*	☐
	ANLGIN/X/COMP/THRE	☑	☑	☑	☐	☐	☑*	☑*	☐
	ANLGIN/X/COMP/RATIO	☑	☑	☑	☐	☐	☑*	☑*	☐
	ANLGIN/X/COMP/GAIN	☑	☑	☑	☐	☐	☑*	☑*	☐
	ANLGIN/X/COMP/ATK	☑	☑	☑	☐	☐	☑*	☑*	☐
	ANLGIN/X/COMP/REL	☑	☑	☑	☐	☐	☑*	☑*	☐
	ANLGIN/X/COMP/METER	☑	☑	☑	☐	☐	☑*	☑*	☐
	ANLGIN/X/EQ/ENABLE	☑	☑	☑	☐	☐	☑*	☑*	☐
	ANLGIN/X/EQ/LO/GAIN	☑	☑	☑	☐	☐	☑*	☑*	☐
	ANLGIN/X/EQ/LO/FREQ	☑	☑	☑	☐	☐	☑*	☑*	☐
	ANLGIN/X/EQ/LOWCUT	☑	☑	☑	☐	☐	☑*	☑*	☐
	ANLGIN/X/EQ/Y/GAIN	☑	☑	☑	☐	☐	☑*	☑*	☐
	ANLGIN/X/EQ/Y/FREQ	☑	☑	☑	☐	☐	☑*	☑*	☐
	ANLGIN/X/EQ/Y/Q	☑	☑	☑	☐	☐	☑*	☑*	☐
	ANLGIN/X/EQ/HI/GAIN	☑	☑	☑	☐	☐	☑*	☑*	☐
	ANLGIN/X/EQ/HI/FREQ	☑	☑	☑	☐	☐	☑*	☑*	☐
	ANLGIN/X/METER/PRE	☑	☑	☑	☐	☐	☑*	☑*	☐
	ANLGIN/X/METER/POST	☑	☑	☑	☐	☐	☑*	☑*	☐
	ANLGIN/X/METER/SEND	☐	☑	☑	☐	☐	☑*	☑*	☐
	USBIN/X/METER/POST	☑	☐	☐	☐	☐	☐	☐	☐
	AESIN/X/NAME	☐	☐	☐	☐	☐	☐	☐	☑
	AESIN/X/MUTE	☐	☐	☐	☐	☐	☐	☐	☑
	AESIN/X/FADER	☐	☐	☐	☐	☐	☐	☐	☑
	AESIN/X/METER	☐	☐	☐	☐	☐	☐	☐	☑
	DANTEIN/X/NAME	☐	☑	☑	☑	☑	☑	☑	☑
	DANTEIN/X/METER	☐	☑	☑	☑	☑	☑	☑	☑

Category	Parameter Key	✓ Supported MX-8A	MM-4D X	MM-4D E	✓* Supported (with channel limit) ML-4D X	ML-4D E	MM-2D X	MM-2D E	☐ Not supported AE-4D
Mix	MIX/X/NAME	✓	✓	✓	✓	✓	✓	✓	☐
	MIX/X/MUTE	✓	✓	✓	✓	✓	✓	✓	☐
	MIX/X/FADER	✓	✓	✓	✓	✓	✓	✓	☐
	MIX/X/ANLGIN/Y/MUTE	✓	✓	✓	☐	☐	✓*	✓*	☐
	MIX/X/ANLGIN/Y/FADER	✓	✓	✓	☐	☐	✓*	✓*	☐
	MIX/X/USBIN/Y/MUTE	✓	☐	☐	☐	☐	☐	☐	☐
	MIX/X/USBIN/Y/FADER	✓	☐	☐	☐	☐	☐	☐	☐
	MIX/X/DANTEIN/Y/MUTE	☐	✓	✓	✓	✓	✓	✓	☐
	MIX/X/DANTEIN/Y/FADER	☐	✓	✓	✓	✓	✓	✓	☐
	MIX/X/DUCK/ENABLE	✓	✓	✓	✓	✓	✓	✓	☐
	MIX/X/DUCK/SRC	✓	✓	✓	✓*	✓*	✓*	✓*	☐
	MIX/X/DUCK/THRE	✓	✓	✓	✓	✓	✓	✓	☐
	MIX/X/DUCK/ATT	✓	✓	✓	✓	✓	✓	✓	☐
	MIX/X/DUCK/REL	✓	✓	✓	✓	✓	✓	✓	☐
	MIX/X/ANC/ENABLE	✓	✓	✓	✓	✓	✓	✓	☐
	MIX/X/ANC/SRC	✓	✓	✓	✓*	✓*	✓*	✓*	☐
	MIX/X/ANC/THRE	✓	✓	✓	✓	✓	✓	✓	☐
	MIX/X/ANC/MAXGAIN	✓	✓	✓	✓	✓	✓	✓	☐
	MIX/X/ANC/MINGAIN	✓	✓	✓	✓	✓	✓	✓	☐
	MIX/X/ANC/RATIO	✓	✓	✓	✓	✓	✓	✓	☐
	MIX/X/ANC/TIME	✓	✓	✓	✓	✓	✓	✓	☐
	MIX/X/ANC/GAP/THRE	✓	✓	✓	✓	✓	✓	✓	☐
	MIX/X/ANC/GAP/TIME	✓	✓	✓	✓	✓	✓	✓	☐
	MIX/X/METER	✓	✓	✓	✓	✓	✓	✓	☐
	USBOUT/X/ANLGIN/Y/MUTE	✓	☐	☐	☐	☐	☐	☐	☐
	USBOUT/X/ANLGIN/Y/FADER	✓	☐	☐	☐	☐	☐	☐	☐
	USBOUT/X/USBIN/Y/MUTE	✓	☐	☐	☐	☐	☐	☐	☐
	USBOUT/X/USBIN/Y/FADER	✓	☐	☐	☐	☐	☐	☐	☐
	USBOUT/X/METER	✓	☐	☐	☐	☐	☐	☐	☐

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Category	Parameter	☑ Supported		☑* Supported (with channel limit)			☐ Not supported	
	Key	MX-8A	MM-4D X	MM-4D E	ML-4D X	ML-4D E	MM-2D X	MM-2D E	AE-4D
Output	ANLGOUT/X/NAME	☑	☐	☐	☑	☑	☑ *	☑ *	☐
	ANLGOUT/X/MUTE	☑	☐	☐	☑	☑	☑ *	☑ *	☐
	ANLGOUT/X/ROUTING	☑	☐	☐	☑ *	☑ *	☑ *	☑ *	☐
	ANLGOUT/X/FADER	☑	☐	☐	☑	☑	☑ *	☑ *	☐
	ANLGOUT/X/PHASE	☑	☐	☐	☑	☑	☑ *	☑ *	☐
	ANLGOUT/X/EQ/ENABLE	☑	☐	☐	☑	☑	☑ *	☑ *	☐
	ANLGOUT/X/EQ/LO/GAIN	☑	☐	☐	☑	☑	☑ *	☑ *	☐
	ANLGOUT/X/EQ/LO/FREQ	☑	☐	☐	☑	☑	☑ *	☑ *	☐
	ANLGOUT/X/EQ/LOWCUT	☑	☐	☐	☑	☑	☑ *	☑ *	☐
	ANLGOUT/X/EQ/Y/GAIN	☑	☐	☐	☑	☑	☑ *	☑ *	☐
	ANLGOUT/X/EQ/Y/FREQ	☑	☐	☐	☑	☑	☑ *	☑ *	☐
	ANLGOUT/X/EQ/Y/Q	☑	☐	☐	☑	☑	☑ *	☑ *	☐
	ANLGOUT/X/EQ/HI/GAIN	☑	☐	☐	☑	☑	☑ *	☑ *	☐
	ANLGOUT/X/EQ/HI/FREQ	☑	☐	☐	☑	☑	☑ *	☑ *	☐
	ANLGOUT/X/EQ/HIGHCUT	☑	☐	☐	☑	☑	☑ *	☑ *	☐
	ANLGOUT/X/DELAY/ENABLE	☑	☐	☐	☑	☑	☑ *	☑ *	☐
	ANLGOUT/X/DELAY/TIME	☑	☐	☐	☑	☑	☑ *	☑ *	☐
	ANLGOUT/X/LIMIT/ENABLE	☑	☐	☐	☑	☑	☑ *	☑ *	☐
	ANLGOUT/X/LIMIT/THRE	☑	☐	☐	☑	☑	☑ *	☑ *	☐
	ANLGOUT/X/LIMIT/ATK	☑	☐	☐	☑	☑	☑ *	☑ *	☐
	ANLGOUT/X/TESTTONE	☑	☐	☐	☐	☐	☐	☐	☐
	ANLGOUT/X/METER	☑	☐	☐	☑	☑	☑	☑	☐
	AESOUT/X/NAME	☐	☐	☐	☐	☐	☐	☐	☑
	AESOUT/X/MUTE	☐	☐	☐	☐	☐	☐	☐	☑
	AESOUT/X/FADER	☐	☐	☐	☐	☐	☐	☐	☑
	AESOUT/X/METER	☐	☐	☐	☐	☐	☐	☐	☑
	DANTEOUT/X/NAME	☐	☑	☑	☑	☑	☑	☑	☐
	DANTEOUT/X/METER	☐	☑	☑	☑	☑	☑	☑	☑
	DANTEOUT/X/ROUTING	☐	☑	☑	☑ *	☑ *	☑ *	☑ *	☐

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Category	Parameter Key	☑ Supported	☑ * Supported (with channel limit)			☐ Not supported		
		MX-8A	MM-4D X	MM-4D E	ML-4D X	ML-4D E	MM-2D X	MM-2D E	AE-4D
Test Tone	TESTTONE/ENABLE	☑	☐	☐	☐	☐	☐	☐	☐
	TESTTONE/PATT	☑	☐	☐	☐	☐	☐	☐	☐
	TESTTONE/FREQ	☑	☐	☐	☐	☐	☐	☐	☐
	TESTTONE/GAIN	☑	☐	☐	☐	☐	☐	☐	☐
GPI	GPI/SWITCH/X/ASSIGN/Y	☐	☐	☑	☐	☐	☐	☑ *	☐
	GPI/SWITCH/X/MODE	☐	☐	☑	☐	☐	☐	☑ *	☐
	GPI/LED/X/MODE	☐	☐	☑	☐	☐	☐	☑ *	☐
	GPI/CONTROL/X/ASSIGN/Y	☐	☐	☐	☐	☑	☐	☑ *	☐
System	DEVICE/NAME	☑	☑	☑	☑	☑	☑	☑	☑
	DEVICE/MODELNAME	☑	☑	☑	☑	☑	☑	☑	☑
	DEVICE/VER/SYSTEM	☑	☑	☑	☑	☑	☑	☑	☑
	DEVICE/SERIAL	☑	☑	☑	☑	☑	☑	☑	☑
	DEVICE/SAMPLE	☑	☑	☑	☑	☑	☑	☑	☑
	DEVICE/RESET	☑	☑	☑	☑	☑	☑	☑	☑
	DEVICE/IDENTIFY	☑	☑	☑	☑	☑	☑	☑	☑
	DEVICE/REFLEVEL	☑	☑	☑	☑	☑	☑	☑	☐
	DEVICE/MIXERMODE	☐	☑	☑	☑	☑	☑	☑	☐
	DEVICE/WALLCON/PWR	☑	☐	☐	☐	☐	☐	☐	☐
	LED/BRIGHT	☑	☑	☑	☑	☑	☑	☑	☑
	NETWORK/PASS	☑	☑	☑	☑	☑	☑	☑	☑
	NETWORK/DHCP/ENABLE	☑	☑	☑	☑	☑	☑	☑	☑
	NETWORK/DHCP/SUB	☑	☑	☑	☑	☑	☑	☑	☑
	NETWORK/DHCP/GATE	☑	☑	☑	☑	☑	☑	☑	☑
	NETWORK/IP	☑	☑	☑	☑	☑	☑	☑	☑
	NETWORK/SUB	☑	☑	☑	☑	☑	☑	☑	☑
	NETWORK/GATE	☑	☑	☑	☑	☑	☑	☑	☑
	NETWORK/MAC	☑	☑	☑	☑	☑	☑	☑	☑
	REMOTE/232/BAUD	☑	☐	☐	☐	☐	☐	☐	☐
	REMOTE/232/PALI	☑	☐	☐	☐	☐	☐	☐	☐
	REMOTE/232/STOP	☑	☐	☐	☐	☐	☐	☐	☐
	REMOTE/232/LEN	☑	☐	☐	☐	☐	☐	☐	☐
Meter	METER/INTERVAL	☑	☑	☑	☑	☑	☑	☑	☑
	METER/TOTAL	☑	☑	☑	☑	☑	☑	☑	☑

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