

72-13300 Series Multiple Channel Remote Control Syntax V2.0

Command format : VSET<X>:<NR1>

1. VSET: command header
2. X: output channel,1or2
3. : separator
4. NR1: parameter

Command Details:

1. LOCK<NR1>

Description: LOCK or UNLOCK the front panel

Example:LOCK1

LOCK the front panel

Example:LOCK0

UNLOCK the front panel

2. ISET<X>:<NR1>

Description: Sets the output current.

Example: ISET1:2.225

Sets the CH1 output current to 2.225A

3. ISET<X>?

Description: Returns the output current setting.

Example: ISET1?

Returns the CH1 output current setting.

4. VSET<X>:<NR1>

Description: Sets the output voltage.

Example VSET1:20.50

Sets the CH1 voltage to 20.50V

5. VSET<X>?

Description: Returns the output voltage setting.

Example VSET1?

Returns the CH1 voltage setting

6. IOUT<X>?

Description: Returns the actual output current.

Example **IOUT1?**

Returns the CH1 output current

7. **VOUT<X>?**

Description: Returns the actual output voltage.

Example **VOUT1?**

Returns the CH1 output voltage

8. **TRACK<NR1>**

Description: Selects the operation mode: independent, trackingseries, or tracking parallel.

NR1 0: Independent

1: Tracking series

2: Tracking parallel

Example: **TRACK0**

Selects the independent mode.

Note: This command is applied to Multiple-channel models only.

9. **BEEP<Boolean>**

Description: Turns on or off the beep. **Boolean**: boolean logic.

Example **BEEP1** Turns on the beep.

10. **OUT<Boolean>**

Description: Turns on or off the output.

Boolean: 0 OFF,1 ON

Example: **OUT1** Turns on the output

11. **STATUS?**

Description: Returns the POWER SUPPLY status.

Contents 8 bits in the following format

Bit Item Description

0 CH1 0=CC mode, 1=CV mode

1 CH2 0=CC mode, 1=CV mode

2, 3 Tracking 00=Independent, 01=Tracking series,10=Tracking parallel

4 OVP 0 OFF,1 ON

5 OCP 0 OFF,1 ON

6 CH1 0 CH1 OUT OFF, 1CH1 OUT ON

7 CH2 0 CH1 OUT OFF, 1CH1 OUT ON

12. ***IDN?**

Description: Returns the identification.

Example ***IDN?**

Contents TENMA 72-13330 VX.X SN:XXXXXX

13. **RCL<NR1>**

Description: Recalls a panel setting.

NR1:0 – 9: Memory number 0 to 9

Example **RCL1** Recalls the panel setting stored in memory number 1

14. SAV<NR1>

Description: Stores the panel setting.

NR1 0 – 9: Memory number 0 to 9

Example : **SAV1** Stores the panel setting in memory number 1

15.OUT<X>:< Boolean >

Description: Turns on or off the output.

X: ,1OR2, refers to CH1 or CH2

Boolean: 0 OFF,1 ON

Example: **OUT1:1** Turns on the CH1

OUT1:0 Turns off the CH1

OUT2:1 Turns on the CH2

OUT2:0 Turns off the CH2

16.OUT<XX>:< Boolean >

Description: Turns on or off the output.

X: ,CH1 CH2

Boolean: 0 OFF,1 ON

Example: **OUT12:1** Turns on the CH1 and CH2

OUT12:0 Turns off the CH1 and CH2

17.VASTEP <X>:<NR1>,<NR2>,<NR3>

VASTOP<X>

Description: Set automatic step voltage output

Example:

VASTEP1:1,30,0.1,0.2

Set CH1 starting voltage to 1V, ending voltage 30V, step voltage 0.1V and step time 0.2s; and execute the output.

VASTOP1

The step voltage on CH1 stops.

VASTEP2:30,1,0.1,0.01

Set CH2 starting voltage to 30V, ending voltage 1V, step voltage 0.1V and step time 0.01s; and execute the output.

VASTOP2

The step voltage on CH2 stops.

18.VSTEP <X>:<NR1>

VUP<X>

VDOWN<X>

Description: Set trigger step voltage output

Example:

VASTEP 1:1.5 Set CH1 trigger step voltage 1.5V
VUP1 Set CH1 voltage up 1.5V
VDOWN1 Set CH1 voltage down 1.5V

19. IASTEP <X>:<NR1>,<NR2>,<NR3>

IASTOP<X>

Description: Set automatic step voltage output

Example:

IASTEP2:1,3,0.1,1

OUT1:1

Set CH1 starting current to 1V, ending current 30V, step current 0.1V and step time 1s; and execute the CH1 output.

IASTOP2

The step voltage on CH2 stops.

20. IASTEP <X>:<NR1>

IUP<X>

DOWN<X>

Description: Set trigger step current output

Example:

IASTEP 1:0.5 Set CH1 trigger step current 0.5A

IUP1 Set CH1 current up 0.5A

IDOWN1 Set CH1 current down 0.5A