Milestone™

RELAY CONTROLLER'S MANUAL

RELAY CONTROLLER

RELAY CONTROLLER by Milestone is a device that helps person/s to control various electric appliances sitting at one place through remote keypad or local keypad or RS 232 interface.

Models Available :	
ML 4 RL	4 Relay Control
ML 8 RL	8 Relay Control
ML 16 RL	16 Relay Control

Features :	
Installation	Easy to Install 100% Plug and Play Unit
Compatibility	Can switch 230 V 8 Amp. Device
Selection	Individual Relay controlled through ➢ Individual Local keypad ➢ Individual remote keypad (optional). ➢ Remote contact closure. ➢ RS232C interface. ➢ RS422/RS485 interface (optional).
Indication	LED Indication for working channel
Power	230 V AC.

Models:			
Technical Specifications	ML 4 RL	ML8 RL	ML16 RL
Nos. Of Relay	4	8	16
Input Power Terminal Block 230 V 60 Amp	1	1	2
Out Put – Captive Screw 230 V 8 A	4	8	16
LED Indication	1-4 & Power	1-8 & Power	1-16 & Power
Key Pad Selection	1-4	1-8	1-16
Remote Keypad Port	D9M-x1	D9M x 1	D9M x 2
Manual / RS232 Select switch	Yes	Yes	Yes
RS232 Interface	D9Fx1	D9Fx1	D9Fx1
Mains Input (AC.)	230 V	230 V	230 V
Dimension (Table Top)	288x130x52	288x130x68	N/A
Dimension (Rack Mount)	19" 1U	19" 1U	19" 2U
Weight for (Table top)	1770g	2000g	N/A
Weight for (Rack Mount)	3250g	3500g	3770g

OPERATION

A. Manual Mode
Keep the select switch on rear panel to **NORMAL** Mode.

Local Keypad
Controls the required output from the front panel keypad Pressing the individual keypad will toggle the respective relay output.

Remote contact closure/Remote keypad
Rear panel has a D9 male connector to connect Milestone's remote keypad or any other remote contact closure that can be operated from a distance of 50 meters.

The connector diagram for D9 male connector is as follows:

D-9 Male	Relay Driver
1	1
2	2
:	:
:	:
8	8
9	Common ground

Note: Particular relay can be operated by shorting respective pin to pin 9 through contact switch or by using Milestone's remote keypad.

B. Remote RS232 interface

Keep the select rear panel to **RS 232** Mode**.** D9 female connector from rear panel is used for selecting the relay drive through RS232C Interface.

The pin configurations are:

D-9 Female (RS-232 Port of Unit)	Signals
3	RX
5	GRD

The simple command used for selecting the channels is

RELAY	Decimal	ASCI I
1 ON	1!	31, 21
2 ON	2!	32, 21
:	:	:
8 ON	8!	38, 21
1 OFF	a!	61, 21
:	:	:
8 OFF	h!	68, 21

Communication parameters are 9600 baud, 8-bit, 1 stop bit and no parity.

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4