



96 x 96mm

Features :

- PLC with Built-in HMI
- 2 x 16 Characters LCD Display
- Serial Printing
- Windows based User Friendly Software for Ladder Programming and HMI Configuration

Display Specifications

Display	LCD (Backlight) 2 x 16 Characters Font Size : 5 x 7 mm
No. of Keys	8 Keys (6 User Configurable)

Input Specifications

Digital Input	
No. of Digital Inputs	8 (Including Fast Channel Input)
Input type	PNP
Input voltage range	5 - 30V DC
Debounce Time	Programmable 1 to 255 ms (Default 10ms)
Isolation between Power supply & inputs	Yes
Isolation between Inputs & MCU	No
Response time	Depends on debounce time & ladder execution time
Timer accuracy	0.1% or 2 ms (Which ever greater).
Input current	2mA@12V
Fast Input	
Input Type	PNP
No. of channels	1 (DI0 & DI1)
Max speed	5KHz
Analog Input	

	MM3032-2-0-0-230V V2	MM3032-2-0-0-24V V2
No of Inputs	2 [AI0 & AI1]	
Input Type	Voltage (0-10V) / Current (0-20mA)	Voltage (0-10V) / Current (0-20mA), NTC
Accuracy	± 0.5% of Full scale or 100µA	± 0.5% of Full scale or 100µA (Current), ± 2% of Full scale (NTC)
Resolution	12 Bits	
Conversion Time	100 msec	
Linearity	0.1 %	
Maximum Non-Destructive Input	31mA	
Isolation between Channels	No	
Protection against Polarity Inversion	Yes	

Output Specifications

Digital Output	
No. of Outputs	6 (2 Common for 6 Relay Outputs)
Type	Relay
Relay type	SPST
Contact rating	NO : 5A [Resistive@230V AC]
Isolation	No
Response time	10 ms
Mechanical endurance	5 x 10 ⁶
Analog Output	
No. of channels	1
Output range	0 - 10V DC
Resolution	12 Bits
Load Limit	≥1KΩ
Digital resolution	0.0 - 100.0% : 0 - 10.000 V
Conversion time	10 ms
Analog Output error at 25°C	0.25% of Full Scale
None Linearity	0.10%

*Analog Output only available in 230V Model

Functional Specifications

Programming method	Windows based Software for Ladder Programming and HMI Configuration.
Memory	Data Memory : 32 KB Program Memory : 240 KB Upload Memory : NA EEPROM : 2KB
Max. no. of objects	5000 objects (As per memory)
Minimum scan time	200 µsec
Typical scan time	1 ms [Also depends on Ladder Programming]

Environmental Specifications

Temperature	Operating : 0 to 55° C Storage : -20 to 70° C
Humidity	10% to 95% RH (Non - condensing)

Communication

Communication Port	RS485 [Slave]
Communication Protocol	MODBUS RTU
Connector	Rj25
Transmission Mode	Half duplex
Transmission Speed	9600, 19200, 38400, 57600, 115200 bps
Data Bits	7 or 8
Parity	None, Odd, Even, Space, Mark
Stop Bits	1 or 2

Mechanical Specifications

Weight	350 gms
Mounting	DIN Rail & Panel

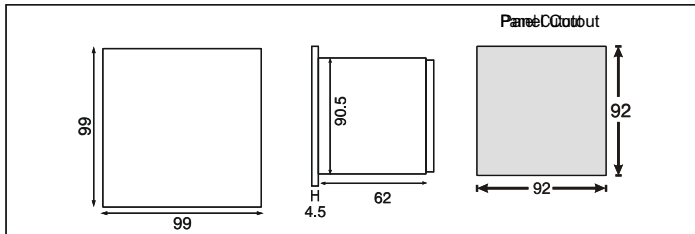
Functional Features

Timer Operational Modes	On Delay, Off Delay, Special Timer (Up / Down) 1ms Timer* & Pulse Timer
Counter	Up Counter, Down Counter & Up / Down Counter [With & without over run]
Other Blocks	Totalizer, Rate Totalizer, Hysteresis & Scaling
Memory Retention	10 years (3KB)
RTC	No

Auxiliary Supply Specification

Supply Voltage	90 - 270 VAC @ 50/60 Hz (without Retention) / 180 - 270 VAC @ 50/60 Hz (with Retention), 18 - 30VDC
Power Consumption	5 W
Source supply	24VDC, 50mA

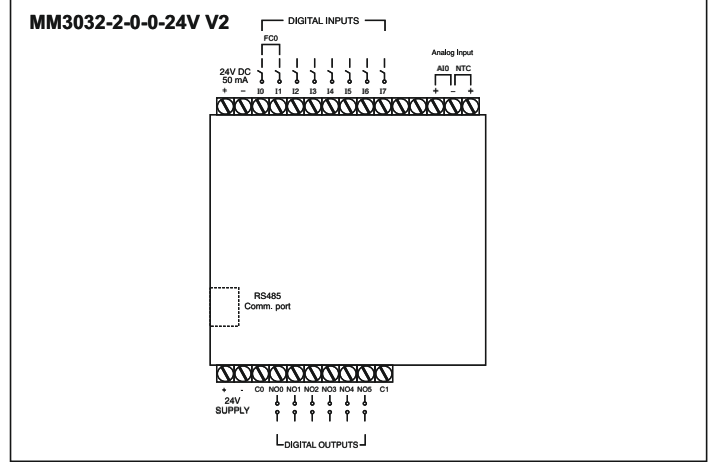
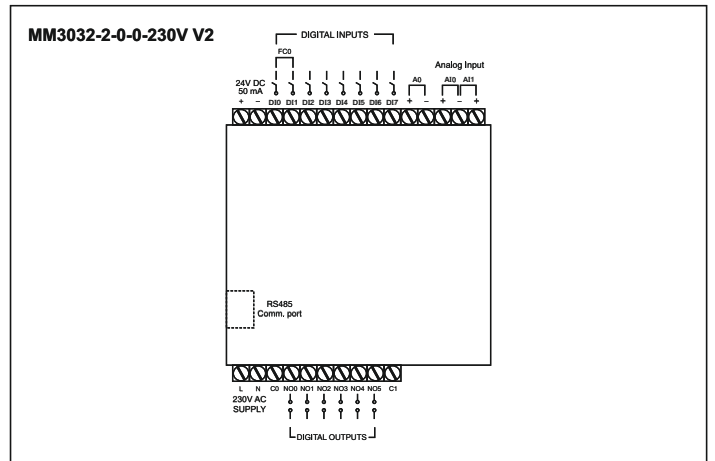
Dimensions (in mm)



Port Description

Port 1 (6 Pin Jack)	
Pin	Description
1	RS485 Slave +ve
2	NC
3	NC
4	NC
5	NC
6	RS485 Slave -ve

Terminal Connections



Ordering Information

Product Code	Description	Certification
MM3032-2-0-0-230V V2	PLC – 8DI, 6RO, 2AI (V/I), 1AO (0-10V DC)- 230VAC	CE RoHS
MM3032-2-0-0-24V V2	PLC – 8DI, 6RO, 1AI (V/I), 1AI-NTC- 24VDC	CE RoHS in Process

Accessories (To be ordered separately)

Downloading cable	AC-USB-RS485-03
Power Supplies	RPS60-24-CE-RoHS
Relay modules	
1) RLYMD-1-S4-1CO-24VDC	4 Channel 1 change over relay module
2) RLYMD-1-S4-2CO-24VDC	4 Channel 2 change over relay module
3) RLYMD-2-S8-1CO-24VDC	8 Channel 1 change over relay module
4) RLYMD-2-S8-2CO-24VDC	8 Channel 2 change over relay module
5) ERLYMD-2-1-S8-1CO-24VDC	8 Channel 1 change over communication based relay module
	ACH-004 (RJ25 Cable)
Networking	AC-IOEXP-03 (Expansion Adaptor)
	AC-USB-RS485-02 (USB to RS485 Cable)