



Features:

- Compact PLC with built-in HMI.
- 2 line x 16 characters LCD display.
- User friendly Windows based software for ladder programming and HMI configuration.

Size: 96mm x 96mm

Technical Specifications

Display

Display	LCD (backlight) 2 line x 16 characters. Font Size 5 x 7mm
No. of Keys	10 keys (8 user configurable)

Input Specifications

Digital Input													
No. of digital input	8												
Input Type	PNP												
Input Voltage Range	5 - 16V DC (abs. max.: 30VDC)												
Response Time	Programmable upto 1 to 255ms from Front End (Default 10ms)(Also depends on ladder execution time)												
Isolation	4kV												
Fast Counter Input													
No. of fast Input channels	3 Inputs A) FC0 - I0 & I1 - Rate / Totalizer B) FC1 - I2 & I3 - Rate / Totalizer C) FC2 - I4 & I5 - Totalizer												
Operating Modes / Frequency	Unidirectional, Bidirectional, Quadrature Modes												
Maximum Count	<table border="1"> <thead> <tr> <th>Input no</th> <th>Operating Mode</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td>I0, I1</td> <td>Uni / Bi / Quad</td> <td>7.5kHz</td> </tr> <tr> <td>I2, I3</td> <td>Uni / Bi / Quad</td> <td>7.5kHz</td> </tr> <tr> <td>I4, I5</td> <td>Uni / Bi / Quad</td> <td>7.5kHz</td> </tr> </tbody> </table>	Input no	Operating Mode	Frequency	I0, I1	Uni / Bi / Quad	7.5kHz	I2, I3	Uni / Bi / Quad	7.5kHz	I4, I5	Uni / Bi / Quad	7.5kHz
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I2, I3	Uni / Bi / Quad	7.5kHz											
I4, I5	Uni / Bi / Quad	7.5kHz											
Analog Input													
No of Inputs / Type	2 input [AI 0, AI 1]												
Sensors	Voltage [0-10V], Current [0-20mA] [Selectable via jumper]												
Accuracy	± 0.5% of full scale / ± 5 counts whichever greater												
Resolution	10 bits												
Conversion time	100 msec												
Linearity	0.1 %												

Output Specifications

Digital Output - Relay

No. of Outputs	6
Contact Rating	NO Type : 3A [Resistive @ 240V AC]
Isolation	4kV

Functional Specifications:

Programming Method	Windows based software for ladder programming and HMI Configuration.
Memory	Data memory: 3 kbytes Code memory: 95 kbytes Upload memory: NA
Max. no. of Objects	2000 objects (As per memory)
Minimum Scan Time	200 µsec
Typical Scan Time	1 ms [Also depends on ladder programming]

Communication:

Communication Ports	RS232 [DCE]
Communication Protocol	Modbus RTU: RS232
Supported Expansion	None

Functional Features

Timer Operational Modes	On Delay Timer, Off Delay Timer, Up Timer / Down Timer [Special Timer]. 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 (3k memory)
RTC	No

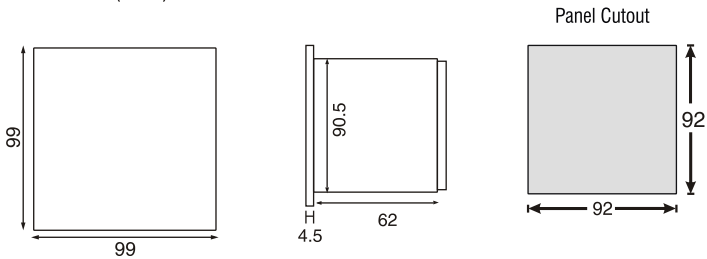
Supply Voltage

Supply Voltage	230V AC (-20% /+15%), 50Hz
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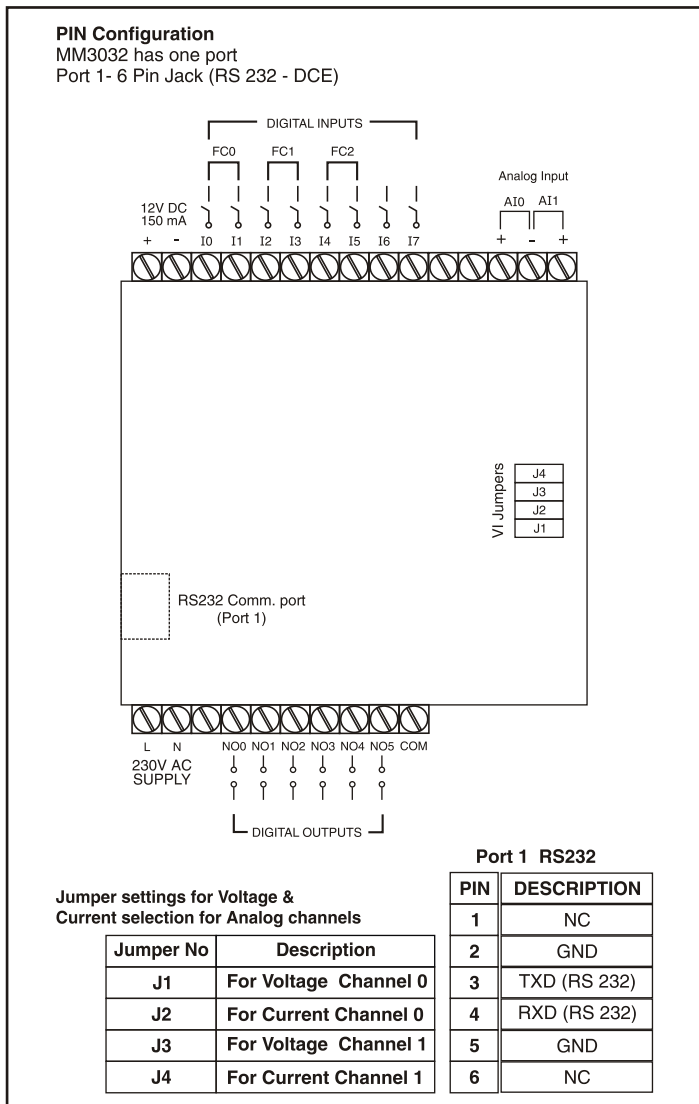
Environmental Specifications

Temperature	Operating : 0 to 50 °C Storage : -20 to 60 °C
Humidity (non-condensing)	95% RH
Weight	348gms

Dimensions (in mm)



Terminal Connections



Ordering Information

Product	Order Code
MM3032	MM3032-P1

Accessories (To be ordered separately)

Communication cable	ACH-002
Windows-based software for ladder programming	ACD-003
USB to RS232	AC-USB-RS232-01