



### FEATURES

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

**96 x 96**

SPECIFICATIONS	
Display	LCD (backlight) 2 line x 16 character, Font size 5 x 7
Supply Voltage	90-270 V AC
No. of Keys	10
No. of Configurable Keys	8

INPUT SECTION													
Inputs	8 inputs												
Input Type	I0 to I7 - PNP												
Input Voltage	5 -16V DC												
Response Time	Programmable upto 1 to 255ms from Front End (Default 10ms)(Also depends on ladder execution time)												
Isolation	2kV												
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	Unidirectional / Bidirectional / Quadrature Modes												
Max Speed.	<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
	Input no	Operating Mode	Frequency										
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	I2, I3	Uni / Bi / Quad	7.5KHz										
I4, I5	Uni / Bi / Quad	7.5KHz											
Minimum Rate Measured	0.06Hz												
Maximum Count	32 bits												

ANALOG SECTION	
Input	2 input (AI 0, AI 1)
Analog Sensor	Voltage (0-10V), Current (0-20mA) (Selectable via jumper)
Resolution	10 bit
Accuracy	1 bit
Linearity	0.1 %

OUTPUT SECTION	
Digital Outputs	6 ( Relay )
Relay Contact Rating	3A (Resistive @ 240VAC)
Isolation	2kV

FUNCTIONAL SPECIFICATIONS	
Programming Method	Windows based software for ladder programming and HMI Configuration.
Memory	Data Memory: 3k, Code Memory: 95k, Upload Memory: NA
No. of Objects	Maximum 5000 (As per memory)
Minimum Scan Time	200 µsec
Typical Scan Time	1 ms (Also depends on ladder programming)

FUNCTIONAL BLOCKS	
Timer	On Delay Timer, Off Delay Timer, Up Timer / Down Timer (Special Timer). 1ms timer (max 4 blocks) & Pulse Timer
Counter	Up Counter, Down Counter & Up/Down Counter (With & without over run)
Other Blocks	PID Control with auto tune, Totalizer, Rate totalizer, Hysteresis & Scaling.
Memory Retention	10 years
RTC	No
Communication Ports	RS232 (Slave)
Communication Protocols	Modbus RTU: RS232
Supported Expansion Series	NA
Temperature range	Operating : 0 to 50°C, Storage : -20 to 60°C
Humidity	95% RH (Non Condensing)
Weight	343 gms
Order Code	MM3032-P1

MECHANICAL SPECIFICATION	
Mounting	Panel mounting & Din rail Mounting
Front Bezel / Side View	99 x 99 mm / 62 x 90.5 mm
Panel Cutout	92 x 92 mm
Din Rail	35 mm

### ? SERVICE DETAILS

This device contains no user serviceable parts and requires special equipment and specialized engineers for repair. Please contact service center for repair on the following numbers:

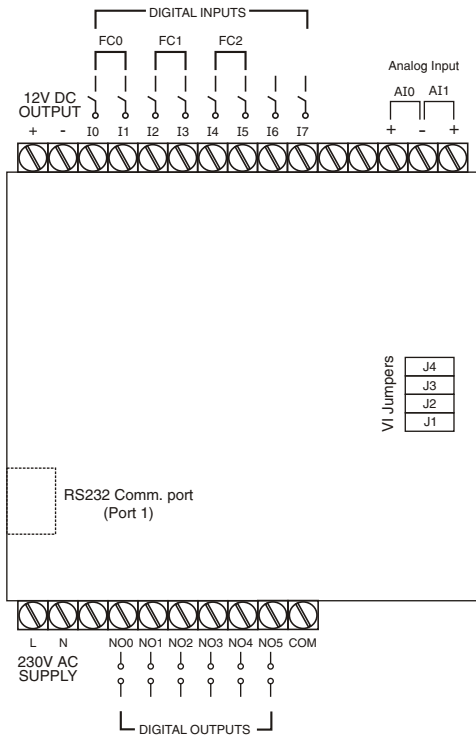
**Toll free: 1800 227353** (BSNL/MTNL subscribers only)

**Others: 91-22-40394200 / 40394202**

NO WARRANTY ON UNIT DAMAGED DUE TO WRONG POWER SUPPLY.



# TERMINAL CONNECTIONS



**PIN Configuration**  
 MM3032 Has One port  
 Port 1- 6 Pin Jack (RS 232)

**Port 1  
 RS232**

PIN	DESCRIPTION
1	NC
2	GND
3	TXD (RS 232)
4	RXD (RS 232)
5	GND
6	NC

**Jumper settings for Voltage & Current selection  
 for Analog channels**

Sr. No.	Jumper No	Description
1	J4	For Current Channel 1
2	J3	For Voltage Channel 1
3	J2	For Current Channel 0
4	J1	For Voltage Channel 0

**CAUTION**  
 Please ensure jumper settings as J1 & J3 are selected before applying 10 VDC to Analog channels. Ignoring this directive may damage Analog channels

( Specifications are subject to change, since development is a continuous process )

**Selec Controls Pvt. Ltd.**  
 Tel. No. : +91-22-40394200 / 40394202  
 Fax No. : +91-22-28471733 | Toll free : 1800 227 353  
 Website: www.selec.com | Email: sales@selec.com