



Patents applied worldwide

SPECIFICATIONS		
SUPPLY VOLTAGE	MIBRX-6M-1-X-X-230V	MIBRX-6M-X-1-1-X-X-24VDC
Sensor Supply (SS)	90-270V AC/DC 50/60Hz	18-30VDC
I/O Card Slots	24V@ 50mA	NA
RTC	6	Yes (Optional)
FIXED INPUTS (Max. Counting Frequency: 50Hz)		
Input Type	PNP	
Input Voltage Range (V+)	5-30V DC	
No. of Inputs	11 Digital Inputs incl. 1 Fast Input Channel	12 Digital Inputs incl. 2 Fast Input Channel
	1 Configurable Analog Input (0-10VDC)	NA
Response Time	10 ms max.	
Isolation	No	Yes (optional)
FAST COUNTER INPUT (On Fixed card)		
Input Type	PNP	
No. of Digital Inputs	2(Uni)/1(Bi/Quad)/ 11Standard Digital Inputs	4(Uni)/2(Bi/Quad)/ 12Standard Digital Inputs
Operating Modes / Frequency		
CH		DI
CH0		CH1**
DI0		DI2**
DI1		STD IP
RT		RT
Direction		1 st IP*
STD IP		2 nd IP*
RT		T
* 90° Phase shift signals ;RT - Rate Totalizer ; T - Totalizer ; STD IP - Standard Input ** Applicable on 24VDC Variants		
DIGITAL OUTPUT - RELAY (On Board) (Only for 230V variants)		
Number of Relay Outputs	4	
Contact Rating	NO Type : (5A resistive @ 230V AC / 30V DC)	
Isolation	2.5 kV	
Initial Max. Contact Resistance	100mΩ (@1A, 6V DC)	
Switching Time	20ms max.	
COMMUNICATION		
Communication Port	1. PORT 1 - RS485 Slave (MODBUS RTU) 2. PORT 2 - RS485 Master (MODBUS RTU) For Expansion 3. ETHERNET SLAVE (MODBUS RTU/MODBUS TCP) 4. CAN 5. USB (24VDC variant)	
ENVIRONMENTAL CONDITIONS		
Temperature	Operating :0 to 55°C ; Storage : -20 to 70°C	
Humidity (non-condensing)	10% to 95% RH	
Enclosure	Din Rail Mounting	
Weight	270 grams (Without I/O cards)	250 grams (Without I/O cards)

MIBRX-6M-X-1-1-X-X-24VDC/MIBRX-6M-1-X-X-230V
Operating Instructions

FEATURES

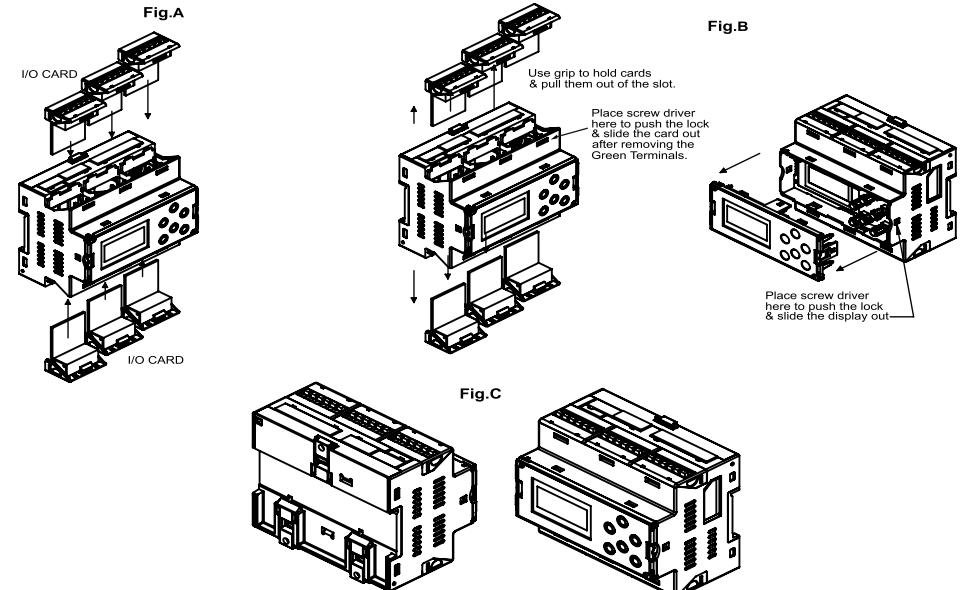
- Flexible Card Selection
- Compact PLC with User Selectable HMI
- Windows based User Friendly Selpro Software for Ladder Programming
- RTC with Time Switch function (optional)
- RS485 based Master & Slave Communication
- Ethernet Slave Communication (optional)
- CAN Communication (optional)
- Data logging

CONFIGURABLE I/O CARD SPECIFICATIONS

DATA LOGGING (Optional)

Memory Storage	1MB (FIXED), 2MB (I/O CARD)									
Minimum Logging Interval Time	10 Sec									
Data Retention	10 Years									
DIGITAL OUTPUT - RELAY										
Contact Rating	NO Type (5A Resistive @ 230V AC / 30V DC)									
Isolation	2.5 kV									
Initial Max. Contact Resistance	100mΩ (@1A 6V DC)									
Max. Switching Time	20ms Max.									
DIGITAL OUTPUT - TRANSISTOR										
Transistor Rating	PNP Type : 24V, 100mA									
Switching Time	10ms Max.									
ANALOG INPUT										
Sensors	J, K, T, R, S, C, E, B, N, L, U, W, PLTTL II, RTD MVOLT (0-60mV), VOLT (0-10V), CURR (0-20mA)									
Resolution	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>12 Bits</td> <td>0 - 10V</td> <td>2.5mV (1 Count)</td> </tr> <tr> <td></td> <td>0 - 20mA</td> <td>5µA</td> </tr> <tr> <td></td> <td>TC / RTD</td> <td>0.1°C (Note : 1°C for R & S Type)</td> </tr> </table>	12 Bits	0 - 10V	2.5mV (1 Count)		0 - 20mA	5µA		TC / RTD	0.1°C (Note : 1°C for R & S Type)
12 Bits	0 - 10V	2.5mV (1 Count)								
	0 - 20mA	5µA								
	TC / RTD	0.1°C (Note : 1°C for R & S Type)								
Conversion Time	100 msec.									
Accuracy @ 25°C	0.25% of Full Scale									
ANALOG OUTPUT										
Output Type	Current: 0-20mA ; Voltage: 0-10V									
Resolution	14 Bits									
Conversion Time	10 msec.									
Linearity Error	0.1%									

Note : Refer I/O Card & Display Card Datasheets for detailed specifications



1. Insert the I/O card as shown in Fig. A.
2. Fig. C shows a fully assembled MIBRX-6M unit with LCD display module.
3. To remove the card from the slot, use a screw driver to push the lock & slide the card out as shown in Fig. B. Remove the Green Terminal before sliding the card out for easy operation.
4. To remove the display module, use a screw driver to push the lock and pull it out, refer Fig. B.

