

PRELIMINARY DATASHEET



**Technical Specification**

**Display specifications**

Type	7 Segment LED	
Digits	4 Red	1 Red
LED banks	6 Red LED	
No. of keys	3 Keys (2 User configurable)	1 Key
No. of slots	2	

**Input specifications**

Digital input	
No. of inputs	3*
Input type	PNP
Input voltage range	5-30V
Response time	Depends on debounce time & ladder execution time
Debounce time	10ms
Fast input	
No. of inputs	1
Input type	PNP
Input frequency	5 kHz

\* = 1 Digital input can be configured as analog input (0-10V)

**Communication**

Communication port	1 Port - RS485 slave
Communication protocol	MODBUS RTU
Connector type	2 Wire
Transmission type	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

**Functional specifications**

Functional features	
Programming	Windows based software for ladder programming & HMI config
Timer operational modes	On delay, Off delay, Pulse, Special (Up / Down) Timer
Timer resolution	1ms (Only accurate 1ms timer block)
Counter	Up counter, Down counter, Up-Down counter, Special (Up-Down counter)
Other blocks	Analog input / output, Time switch, RTC etc
RTC	No

**Features**

- ◆ Modular PLC with pluggable / Independent display
- ◆ Flexible IO card selection
- ◆ RTC with time switch functions (Optional)

**Functional specifications**

Memory	
Data memory	16Kb
Code memory	128Kb
EEPROM	8Kb
No. of objects	5000
Min. scan time	200usec
Typical scan time	1msec (Based on ladder programming)

**Environmental specifications**

Operating temperature	5 to 55°C
Storage temperature	-25 to 70°C
Humidity (Non condensing)	10 to 95%

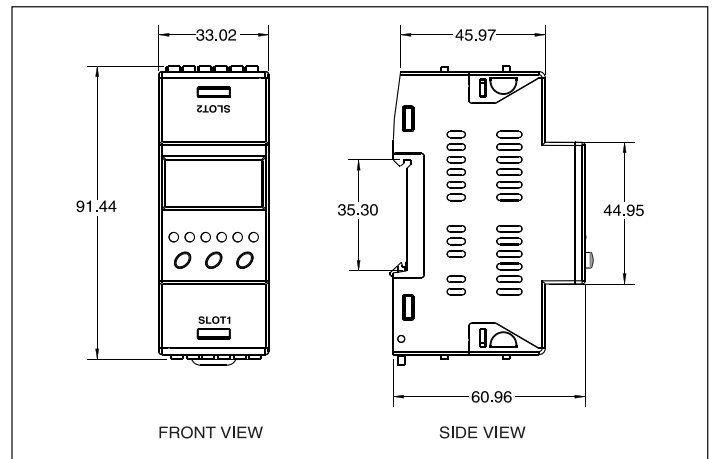
**Mechanical specifications**

Mounting type	Rail mount
Weight	90 gms without IO cards

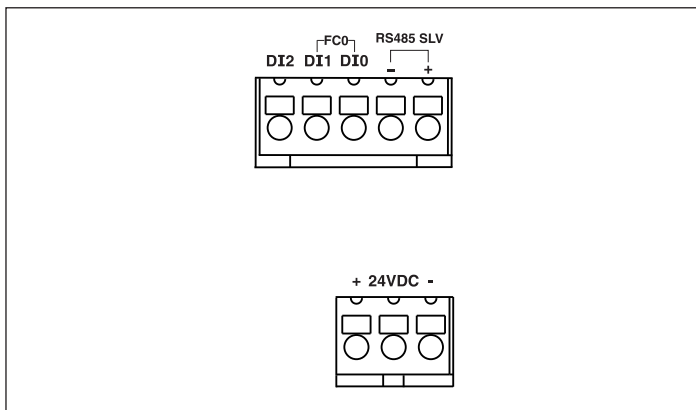
**Supply specification**

Supply voltage	24 VDC (18-30VDC)
Power consumption	4Watts

**Dimensions (All are in mm)**



Terminal connection



Ordering information

Product code	Description	Certification
MIBRX-2M-1-0-0-24VDC	24V DC Power supply without master communication & RTC	CE

Supported display modules

Display module	Description	Certification
MIBRX-DSP-2M-0-1-06-A	1-Digit (Red), 1-Key, 6-LED (Red) 7-Segment display	CE
MIBRX-DSP-2M-7-1-04-A	4-Digit (Red), 3-Key, 6-LED (Red) 7-Segment display	CE

Supported I/O cards

IO cards	Description	Certification
MIBRX-SC-DI04	4-Digital inputs card	CE
MIBRX-SC-DI06	6-Digital inputs card	CE
MIBRX-SC-RO03	3-Channel relay output card	CE
MIBRX-SC-RO04	4-Channel relay output card	CE
MIBRX-SC-TO04	4-Channel transistor output card	CE
MIBRX-SC-DI02-RO02	2-Digital input + 2-Channel relay output card	CE
MIBRX-SC-DI02-TO02	2-Digital input + 2-Channel transistor output card	CE
MIBRX-SC-AI02-I	2-Channel analog input card - Current	CE
MIBRX-SC-AI02-V	2-Channel analog input card - Voltage	CE
MIBRX-SC-AI02-V/I	2-Channel analog input card - Voltage/Current	CE
MIBRX-SC-AI02-NTC	2-Channel analog input card - NTC	CE
MIBRX-SC-AI02-PTC	2-Channel analog input card - PTC	CE
MIBRX-SC-AI02-TC	2-Channel analog input card - Thermocouple	CE
MIBRX-SC-AI02-RTD	2-Channel analog input card - RTD	CE
MIBRX-SC-AI02-PT1000	2-Channel analog input card - PT1000	CE
MIBRX-SC-AO01-V/I	1-Channel analog output card - Voltage/Current	CE
MIBRX-SC-FI02	2-Channel fast input card	CE
MIBRX-SC-FO02	2-Channel fast output card	CE
MIBRX-SC-LC02	2-Channel loadcell input card	CE

Accessories

<b>Accessories for communication</b>	
AC-USB-RS485-02 (USB to 2 pin open wire)	
<b>Power supply module</b>	
SMPS - RP-2M-1.1A-24VDC-CE-RoHS	
<b>Window - Based software for ladder programming</b>	
ACD-005	
<b>Relay module</b>	
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