



## Features

- ◆ Modular PLC with pluggable display
- ◆ Flexible IO card selection
- ◆ RTC with time switch functions



## Technical Specification

### Display specifications

Type	LCD with blue backlight & black font	7 Segment LED-White+Green
Digits	2 lines x 8 characters (Font side 5x7mm)	6 + 4
LED banks	---	4 Red
No. of keys	4 Touch keys (3 User configurable)	
No. of slots	2	

### Input specifications

Digital input	
No. of inputs	3+1*
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
Analog inputs	
No. of channels	1
Analog type	Voltage
Range	0-10V
Resolution	12 bit
Conversion time	100ms
Accuracy	0.25%

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

### Output specifications

Digital output	
No. of outputs	3
Contact rating	5A 250VAC/30VDC
Response time	10ms
Mechanical life	20000000 cycles
Contact-Isolation	Yes

### Communication

Communication port	1 Ports - 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

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
Memory retention	10 Years
RTC	Yes
Memory	
Data memory	32Kb
Code memory	240Kb
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%

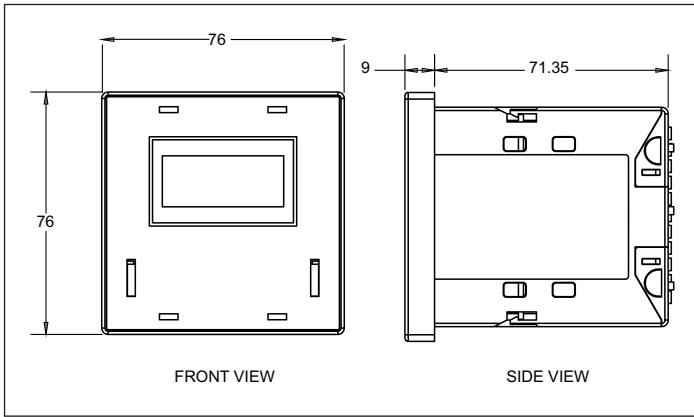
### Mechanical specifications

Mounting type	Panel mount
Weight	330 gms without IO cards

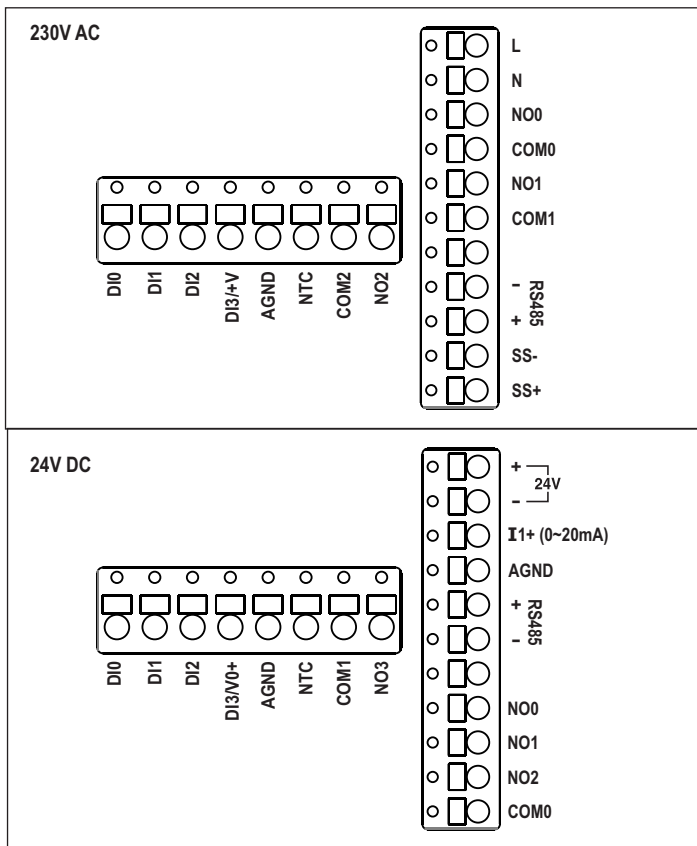
### Supply specification

Supply voltage	90 to 270VAC (50/60Hz)	24VDC (18-30VDC)
Power consumption	8W	6W
Sensor source	24V, 50mA	NA

### Dimensions (All are in mm)



### Terminal connection



### Ordering information

Product code	Description	Certification
MIBRX-72-0-1-230V	2 Slots, 4DI (Including 2FI, 1AI-V), 3RO and RTC; 230VAC	CE
MIBRX-72-0-0-230V	2 Slots, 4DI (Including 2FI, 1AI-V), 3RO; 230VAC	CE
MIBRX-72-0-1-24VDC	2 Slots, 4DI (Including 2FI, 1AI-V), 1AI-I (0~20mA) 4RO and RTC; 24VDC	CE

### Supported display modules

Display module	Description	Certification
MIBRX-DSP-72-7-2-10-B	Integrated 7seg Display for MIBRX 72x72. 6+4 digit 7seg, 4 LEDs for indication & 4 touch keys with LED indication	CE
MIBRX-DSP-72-8-2-08-B	Integrated 8x2 character LCD Display, 4 touch keys with LED indication for MIBRX 72x72	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
MIBRX-SC-DL	Datalogging Card	CE

### Accessories

#### Accessories for communication

AC-USB-RS485-02 (Program downloading cable - USB to 2 pin open wire)

#### Power Supplies

RP-2M-1.1A-24VDC-CE-RoHS

RPS60-24-CE-RoHS

RPS120-24-CE-RoHS

RPS240-24-CE-RoHS

Window - Based software for ladder programming - [www.selec.com/software](http://www.selec.com/software)

#### 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