



Technical Specification

Display specifications

Туре	LCD with Blue backlight & White font
Digits	2 lines x 8 characters (Font size 5x7mm)
No. of keys	6 keys (5 User configurable)

MiBRX-6M-1-1-1-230V MiBRX-6M-2-1-1-0-1-24VDC

Input Specifications

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Digital input		
No. of inputs	10+1*	12
Input type	PI	NP
Input voltage range	5-3	30V
Response time		
Debounce time	10	ms
Fast input		
No. of inputs	1	2
Input type	PNP	
Input frequency	5 k	Hz
Analog inputs	Depends on debounce tir	me & ladder execution time
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	4	-
Contact rating	5A@240VAC/ 30VDC	-
Response time	10ms	-
Mechanical life	20000000 cycles	-
Contact-Isolation	Yes	-

MODBUS Details

MODBO3 Details	
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

Features

- Modular PLC with pluggable display / independant display
- Flexible IO card selection
- Expandable via MODBUS Protocol
- RTC with time switch functions
- Ethernet slave communication (Optional)



Communication

Communication port	Port 1 - RS485 slave, Port 2 - RS485 master	Port 1 - RS485 slave Port 2 - RS485 master Port 3 - ETHERNET slave* Port 4 - USB*
Communication protocol	RS485 - MODBUS RTU	RS485 - MODBUS RTU ETHERNET - MODBUS RTU/TCP USB - USB 2.0
Connector type	RS485 - 2 wire	RS485 / CAN - 2 wire ETHERNET - RJ45, USB - micro B

* = Optional as per selected variant

Functional specifications

T directional specifica		
Programming	Windows based software for ladder programming & HMI config	
Timer operational modes	On delay, Off delay, Pu	ulse, Special (Up / Down) Timer
Timer resolution	1ms (Only acc	curate 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 (Optional)	
Memory		
Data memory		1 MB
Code memory	240 KB	480 KB
EPROM	4 KB	
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

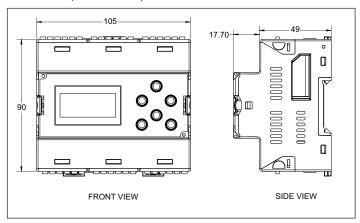
Mounting type	Rail mount	
Weight	270 gms without IO cards	250 gms without IO cards

Supply specification		
Supply voltage	90 to 270VAC (50/60Hz)	18 to 30VDC
Sensor source	24V, 50mA	NA
NTC	Ye	es
No. of slots	6	3

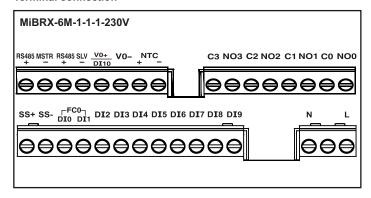
www.selec.com

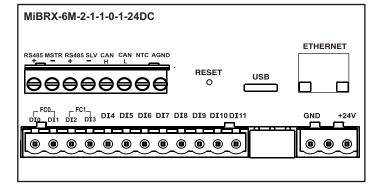


Dimensions (All are in mm)



Terminal connection





Ordering information

Product code	Description	Certification
MiBRX-6M-1-1-230V	6 Slots, 11DI (incl 1FI, 1AI-V), + 4RO, NTC, RTC, Master- 230V	C € NROHS
MiBRX-6M-2-1-1-0-1 -24VDC	6 Slots, 12DI, 24V Power supply with Isolation, Master- ETHERNET & RTC- 24VDC	CE ROHS

Supported display modules

Display module	Description	Certification
MiBRX-DSP-6M -8-2-08-A	MiBRX Display 6M - LCD (8x2)	C € NROHS
MIBRX-DSP-AP-6M	MiBRX 6M Adapter Plate for independent display	C E ROHS

Supported I/O cards

IO cards	Description	Certification
MiBRX-SC-DI04	MiBRX Slot Card - 4 Digital Inputs	C € № RoHS
MIBRX-SC-DI04-ISO	MiBRX Slot Card - 4 Digital Inputs (Isolated)	C € № RoHS
MiBRX-SC-DI06	MiBRX Slot Card - 6 Digital Inputs	C € № RoHS
MiBRX-SC-DI06-AC	MiBRX Slot Card - 6 Digital inputs (AC)	C € № RoHS
MIBRX-SC-DI06-ISO	MiBRX Slot Card - 6 Digital Inputs (Isolated)	C € № RoHS
MiBRX-SC-RO03	MiBRX Slot Card - 3 Relay Outputs	C € NoHS
MiBRX-SC-RO04	MiBRX Slot Card - 4 Relay Outputs	CE North
MIBRX-SC-RO04-12V	MiBRX Slot Card - 4 Relay Output (12V)	CE NoHS
MiBRX-SC-RO05	MiBRX Slot Card - 5 Relay Outputs (1.5 A)	C € (RoHS)
MiBRX-SC-TO04	MiBRX Slot Card - 4 Transistor Outputs	C € (RoHS)
MiBRX-SC-DI02-RO02	MiBRX Slot Card - 2 Digital Inputs & 2 Relay Outputs	C E ROHS
MIBRX-SC-DI02-RO03	MiBRX Slot Card - 2 Digital Inputs & 3 Relay Outputs	CE ROHS
MiBRX-SC-DI02-TO02	MiBRX Slot Card - 2 Digital Inputs & 2 Transistor Outputs MiBRX Slot Card - 2 Digital Inputs & 1 Apples	CE ROHS
MiBRX-SC-DI02-AI01-T	MiBRX Slot Card - 2 Digital Inputs & 1 Analog Input - TC/RTD MiBRX Slot Card - 2 Analog Inputs	C E ROHS
MiBRX-SC-Al02-V	MiBRX Slot Card - 2 Analog Inputs - Voltage	CE Secondari
MiBRX-SC-Al02-V-ISO	MiBRX Slot Card - 2 Analog inputs - Voltage (Isolated)	CE Newstan
MiBRX-SC-Al02-I	MiBRX Slot Card - 2 Analog Inputs - Current MiBRX Slot Card - 2 Analog inputs - Current	CE North
MIBRX-SC-AI02-I-ISO	(Isolated) MiBRX Slot Card - 2 Analog Inputs - 1 Voltage	CE ROMS
MiBRX-SC-Al02-V-I	& 1 Current MiBRX Slot Card - 2 Analog Inputs	CE North
MiBRX-SC-AI02-TC MiBRX-SC-AI02-	- Thermocouple MiBRX Slot Card - 2 Analog inputs - Thermocouple	CE Sconglan
TC-ISO	(Isolated)	C € (RoHS)
MiBRX-SC-Al02-RTD	MiBRX Slot Card - 2 Analog Inputs - RTD	C E Neongilani
MIBRX-SC-AI02- RTD-ISO	MiBRX Slot Card - 2 Analog inputs - RTD (Isolated)	CE ROHS
MIBRX-SC-AI02 -Pt1000	MiBRX Slot Card - 2 Analog Inputs - PT1000	CE North
MiBRX-SC-Al02-PTC	MiBRX Slot Card - 2 Analog Inputs - PTC	CE NeoHS
MiBRX-SC-AI02-NTC	MiBRX Slot Card - 2 Analog Inputs - NTC	CE Scorphan
MIBRX-SC-AO01-V/I	MiBRX Slot Card - 1 Analog Output	CE Scorphan
V-I-ISO	MiBRX Slot Card - 2 Analog Outputs (Isolated)	CE BROHS
MiBRX-SC-FI02	MiBRX Slot Card - 2 Fast Inputs (10KHz)	CE Sends
MiBRX-SC-F001-T001	& 1 Hallsistoi Output	CE ROHS
MiBRX-SC-LC02	MiBRX Slot Card - 2 Analog Inputs - Load Cell (24 Bit)	CE ROHS
MiBRX-SC-DL	MiBRX Slot Card - Datalogging (2MB) & RTC	CE ROHS
MiBRX-SC-WIFI	MiBRX Slot Card - WIFI	CE ROHS
MiBRX-SC-PD	MiBRX Portable Downloader	CE North

Accessories

Accessories for communication

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

Power Supplies

RPS60-24-CE-RoHS

Window - Based software for ladder programming - 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

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