

No. of Outputs	4 relay + Card configurations: 2 / 3 / 4 / 5 (NO) type relay	As per Card Configurations: 2 / 3 / 4 / 5 (NO) type Relay
Contact Rating	5A @250V AC (resistive load), 5A @30V DC (resistive load)	
Relay Type	SPST	
Isolation (CPU ↔ Output)	2.5kV	
Isolation (Output ↔ Output)	NA	
Response Time	20ms	
Mechanical Life	5 Million Operations	

Note : Use of RO and AO cards are limited in 230VAC variants. Mixed usages for RO/AO limits are auto-managed in Selpro settings or refer to product manual for details

No. of Outputs	As per Card Configurations: 4 Transistorized	
Output Rating	100mA @24V DC (current sourcing output), 18-30V DC (External Supply)	
Output Type	PNP (Source)	
Short Circuit Protection	Yes	
Isolation (CPU ↔ Output)	2.5kV	
Isolation (Output ↔ Output)	No	
Polarity Inversion Protection	Yes	
Response Time	10ms	
Nominal Load	240Ω (likely referring to the typical load resistance)	
Breaking Current	110mA (maximum current that can be interrupted)	

No. of Channels	As per Card Configurations: 1 / 2	
Output Range	0-10V DC / 0-20mA DC	
Resolution	12 Bits	
Load Limit	0-10 VDC ≥ 1 kΩ, 0-20mA ≤ 500Ω	
Digital Resolution	0.0-100.0% = 0-10.000V DC, 0.0-100.0% = 0-20.000mA	
Conversion Time	100ms	
Isolation (CPU ↔ Output)	Yes for Isolated cards	
Isolation (Output ↔ Output)	No	
Output error @25 °C	±0.25% of Full Scale	
Linearity	0.10%	

Note : Use of RO and AO cards are limited in 230VAC variants. Mixed usages for RO/AO limits are auto-managed in Selpro settings or refer to product manual for details

Programming Software	Windows-Based Ladder & HMI Configuration		
Program Memory	240 KB	480 KB	
Data Memory	1 MB		
EEPROM	4 KB	1 KB	4 KB
Upload Memory	NA		
Max Objects	5000 (subject to Memory Availability)		
Min Scan Time	200μs		
Typical Scan Time	1ms (Depends on Ladder Logic Complexity)		

Note : set jumpers as per the manual for PD & Wi-Fi Card before use.

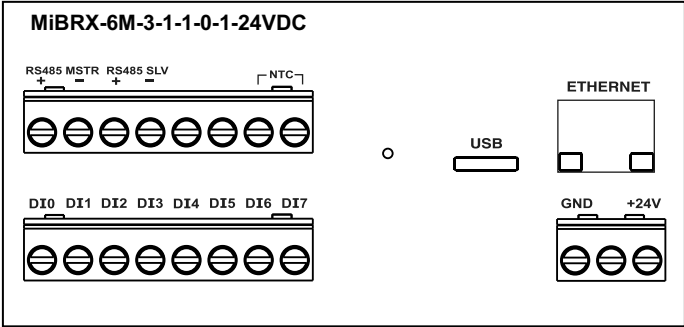
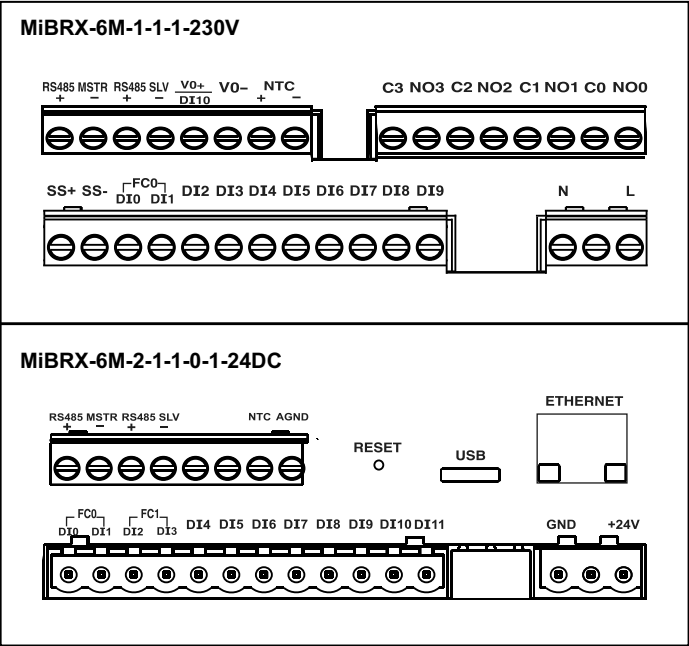
Timer Operational Modes	On Delay, Off Delay, Special Timer (Up/Down), Pulse Timer, 1ms Timer*		
Counter Modes	Up Counter, Down Counter, Up/Down Counter, Special [Up/Down] Counter		
Other Functional Blocks	Array, For Next, Totalizer, Rate Totalizer, Analog Input, Scaling, FTC, Hysteresis, PIDT, Rampsoak, Communication		
Memory Retention	10 years (2 KB)		
Real-Time Clock (RTC)	Yes		
Clock Drift	Maximum ±4 seconds per day		

*Limited to 4 Nos

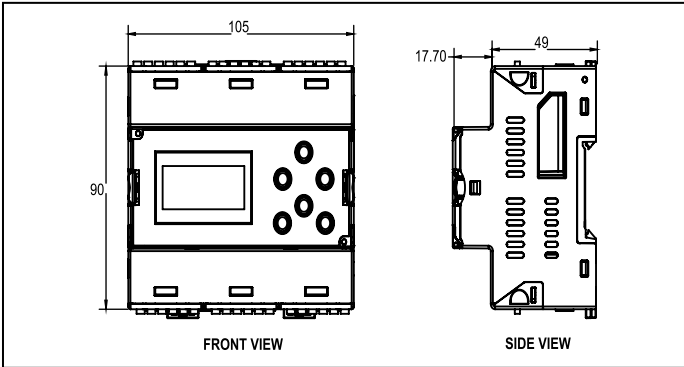
Communication Port	RS485 [Slave], RS485 [Master] for Expansion	RS485 [Slave], RS485 [Master] for Expansion, Ethernet Slave, USB (Micro-B)	RS485 [Slave], RS485 [Master] for Expansion, Ethernet [Server / Client], USB (Micro-B)
Communication Protocol	MODBUS RTU	MODBUS RTU, MODBUS TCP (Ethernet), USB 2.0	MODBUS RTU, MODBUS TCP (Ethernet), MQTT, USB 2.0
Connector	2 Wire	MODBUS: 2-Wire, Ethernet: RJ45, USB: Micro-B	
Transmission Mode	MODBUS - Half Duplex	MODBUS - Half Duplex, ETHERNET - Full Duplex, USB - Half Duplex	
Transmission Speed	MODBUS: 2400, 4800, 9600, 19200, 38400, 57600, 115200 bps, Ethernet: 10/100 Mbps, USB-B: 12 Mbps / 480 Mbps		
Data Bits	MODBUS: 7 or 8		
Parity	MODBUS : None, Odd, Even, Space, Mark		
Stop Bits	MODBUS: 1 or 2		
Operating Temp	0°C to 55°C		
Storage Temp	-20°C to 70°C		
Humidity	10% to 95% RH (Non-Condensing)		
IP rating	Display: IP50, Terminals: IP20		
Weight	270 grams	250 grams	
Mounting	DIN Rail Mountable		
Dimensions in mm (WHD)	105 x 94 x 67		
Supply Voltage	With Retention: 180-270V AC @50/60 Hz Without Retention: 90-270V AC @50/60 Hz		18-30V DC
Inrush Current	5A	2.3A	
Power Consumption	8VA		8W
Polarity Inversion Protection	YES		
Isolation (Power ↔ Communication)	YES		
Source Supply Output	24V DC, 50mA		-

Note: A maximum of 25 variables of type VAR_IN_OUT and VAR_OUTPUT (each 32-bit) can be retained when operating at 110V.

Terminal Connections



Dimensions (All are in mm)



Ordering information

MiBRX-6M-1-1-1-230V	MiBRX 6M Base module - 230VAC - 6 Slots, 11DI (incl 1FI, 1AI-V), + 4RO, NTC, RTC, Master	
MiBRX-6M-2-1-1-0-1-24VDC	MiBRX 6M Base module - Isolated 24VDC PS - 6 Slots, 12 DI, Master, ETHERNET* & RTC.	
MiBRX-6M-3-1-1-0-1-24VDC	MiBRX 6M Base module - Isolated 24VDC PS - 6 Slots, 8 DI, Master, ETHERNET(Slave & Master) & RTC.	

Supported display modules

MiBRX-DSP-6M-8-2-08-A	MiBRX Display 6M - LCD Text (8x2)	
MiBRX-DSP-AP-6M	MiBRX 6M Adapter Plate for Extending display	

Accessories (To Be Ordered Separately)

Product Code	Description
RPS60-24-CE	60W, 24V/2.5A DIN rail mounted power supply in plastic housing - CE Certified
AC-USB-RS485-02	Protocol Converter Cable - USB to RS485 (2 wire)
AC-USB-RS485-03	Protocol Converter Cable - USB to RS485 (RJ25)
ACH-004-CE-RoHS	Expansion Cable - RJ25 to RJ25 (6Pin)
AC-IOEXP-03-CE-RoHS	Communication Adapter
ERLYMD-2-1-S8-1CO-24V-CE-RoHS	8 Channel 1 Change Over, Communication based
EXP FLEX 2M	Expansion Slot – For Flexys IO Cards
EXP FLEX 2M V3	Independent Remote IO base - For Flexys IO Cards
MiBRX-DSP-AP-6M	MiBRX 6M Adapter Plate for independent display
ACH-004-CE-RoHS	Expansion Cable – RJ25 to RJ25 (6Pin)
MiBRX-DSP-IND-96-8-0-00-B	MiBRX Independent Display 96x96 - Customized, 14 & 7 Seg, Bar Graphs, Speedometer
MiBRX-DSP-IND-96-8-0-00-C*	MiBRX Independent Display 96x96 - 3.5 Inch Graphic Touch
MiBRX-DSP-IND-96-8-2-16-B	MiBRX Independent Display 96x96 - LCD Text (16x2)
MiBRX-DSP-IND-96-8-4-16-B	MiBRX Independent Display 96x96 - LCD Text (16x4)
Selpro	Windows-based software for ladder logic and built-in HMI programming
USB to Serial Driver	USB to Serial cable drivers

Supported I/O Cards

MiBRX-SC-DI0X**	MiBRX Slot Card - 4 / 5 / 6 Digital Inputs	
MiBRX-SC-DI05-230V AC	MiBRX Slot Card - 5 Digital Inputs 230V (AC)	
MiBRX-SC-TO04	MiBRX Slot Card - 4 Transistor Outputs	
MiBRX-SC-RO0X*	MiBRX Slot Card - 2 / 3 / 4 / 5 Relay Outputs	
MiBRX-SC-DI02-TO02	MiBRX Slot Card - 2 Digital inputs & 2 Transistor Outputs	
MiBRX-SC-DI02-RO03	MiBRX Slot Card - 2 Digital Inputs & 3 Relay Outputs	
MiBRX-SC-AI0X-V **	MiBRX Slot Card - 2 / 3 Analog Inputs - Voltage	
MiBRX-SC-AI0X-I **	MiBRX Slot Card - 2 / 3 Analog Inputs - Current	
MiBRX-SC-AI02-V-I **	MiBRX Slot Card - 2 Analog Inputs - 1 Voltage & 1 Current	
MiBRX-SC-AI02-TC **	MiBRX Slot Card - 2 Analog Inputs - Thermocouple	
MiBRX-SC-AI03-2TC-1I-ISO	MiBRX Slot Card - 3 Analog Inputs - 2 Thermocouple (Isolated) & 1 Current (Isolated)	
MiBRX-SC-AI02-RTD **	MiBRX Slot Card - 2 Analog Inputs - RTD	
MiBRX-SC-AI03-2RTD-1I-ISO-P	MiBRX Slot Card - 3 Analog inputs - 2 RTD (Isolated) & 1 Current (Isolated), With Pluggable Terminals	
MiBRX-SC-AI02-PT1000	MiBRX Slot Card - 2 Analog Inputs - PT1000	
MiBRX-SC-AI02-NTC	MiBRX Slot Card - 2 Analog Inputs - NTC	
MiBRX-SC-AI02-PTC	MiBRX Slot Card - 2 Analog Inputs - PTC	
MiBRX-SC-DI02-AI01-T	MiBRX Slot Card - 2 Digital Inputs & 1 Analog Input - TC/RTD	
MiBRX-SC-AO01V/I *	MiBRX Slot Card - 1 Analog Output (Voltage/Current)	
MiBRX-SC-AO02-V-I *	MiBRX Slot Card - 2 Analog Outputs - 1 Voltage & 1 Current (Isolated)	
MiBRX-SC-AO02-X-ISO *	MiBRX Slot Card - 2 Analog Outputs - Voltage / Current (Isolated)	
MiBRX-SC-FI02	MiBRX Slot Card - 2 Fast Inputs (10KHz)	
MiBRX-SC-FO01-TO02-N	MiBRX Slot Card - 1 Fast Output (200KHz) & 2 Transistor Output (NPN)	
MiBRX-SC-LC02	MiBRX Slot Card - 2 Analog Inputs - Load Cell (24 Bit)	
MiBRX-SC-DL	MiBRX Slot Card - Datalogging (2MB) & RTC	
MiBRX-SC-WIFI	MiBRX Slot Card - WIFI	
MiBRX-SC-PD	MiBRX Slot Card - Portable Downloader	

*Pluggable card variant available

** Pluggable + Isolated (ISO) variant available

e.g., MiBRX-SC-DI0X-ISO, MiBRX-SC-DI0X-P

Note:

1. Non-Isolated DI cards supports only in Non-ISO variant.

2. Pluggable variant is not available for MiBRX-SC-RO05.

3. Refer to the IO card and base module compatibility guidelines to ensure effective and valid IO card combinations.