No. of Outputs	As per Card Configurations: 4 (NO) type Relay (12AC)	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	
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 / 0-20 mA DC
Resolution	-	12 Bits
Load Limit	-	0-10V DC ≥1 kΩ, 0-20mA <= 500 Ω
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%
Programming Software	Windows-Based Ladder & HMI Configuration	
Program Memory	112 KB	
Data Memory	16 KB	
EEPROM	8 KB	
Upload Memory	NA	
Max Objects	5000 (subject to Memory Availability)	
Min Scan Time	200 µs	
Typical Scan Time	1 ms (Depends on Ladder logic Complexity)	

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

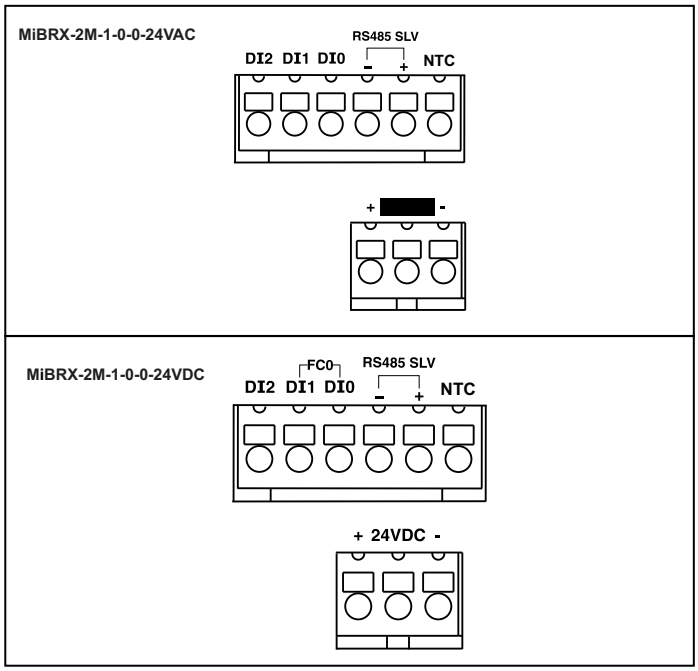
Timer Operational Modes	On Delay, Off Delay, Special Timer (Up / Down), Pulse Timer, 1ms Timer*	
Counter Modes	Up Counter, Down Counter, Up/Down Counter, Special [Up/Down] Counter	
Other Functional Blocks	Array, For Next, Totalizer, Rate Totalizer, Analog Input, Scaling, FTC, Hysteresis, PIDT, Rampsoak,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

**Limited to 4 Nos*

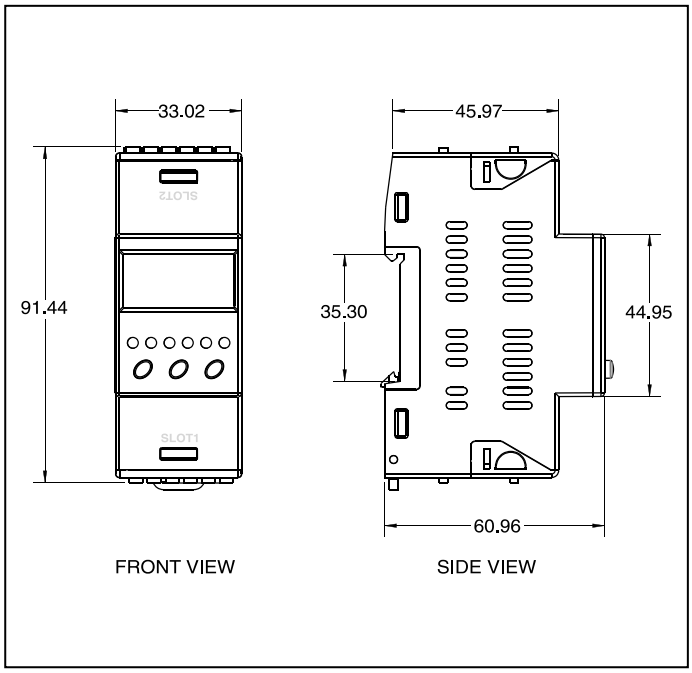
Communication Port	RS485 [Slave]	
Communication Protocol	MODBUS RTU	
Connector	2 Wire	
Transmission Mode	Half Duplex	
Transmission Speed	2400, 4800, 9600, 19200, 38400, 57600, 115200 bps	
Data Bits	7 or 8	
Parity	None, Odd, Even, Space, Mark	
Stop Bits	1 or 2	
Operating Temp	0°C to 55°C	
Storage Temp	-20°C to 70°C	
Humidity	10% to 95% RH (Non-condensing)	
IP rating	Display: IP50, Terminals: IP20	
Weight	90 grams	
Mounting	DIN Rail Mountable	
Dimensions in mm (WHD)	35 x 94 x 67	
Supply Voltage	18-30V AC	18-30V DC
Inrush Current	2.3A	
Power Consumption	4VA	4W
Polarity Inversion Protection	YES	
Isolation (Power ↔ Communication)	NO	
Source Supply Output	NA	

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-2M-1-0-0-24VAC	MiBRX 2M Base module - 24VAC - 2 Slots, 3DI	
MiBRX-2M-1-0-0-24VDC	MiBRX 2M Base module - 24VDC - 2 Slots, 3DI (incl 1FI)	

Supported display modules

MIBRX-DSP-2M-7-1-04-A	MiBRX Display 2M - 7 Seg (4 digit), 6 LED	
MIBRX-DSP-2M-7-1-06-A	MiBRX Display 2M - Blind, 6 LED	
MiBRX-DSP-AP-2M	MiBRX 2M 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
MiBRX-DSP-AP-2M	MiBRX 2M 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	RoHS
MiBRX-SC-DI05-230V AC	MiBRX Slot Card - 5 Digital Inputs 230V (AC)	RoHS
MiBRX-SC-TO04	MiBRX Slot Card - 4 Transistor Outputs	RoHS
MiBRX-SC-RO0X*	MiBRX Slot Card - 2 / 3 / 4 / 5 Relay Outputs	RoHS
MiBRX-SC-D102-TO02	MiBRX Slot Card - 2 Digital inputs & 2 Transistor Outputs	RoHS
MiBRX-SC-DI02-RO03	MiBRX Slot Card - 2 Digital Inputs & 3 Relay Outputs	RoHS
MiBRX-SC-AI0X-V **	MiBRX Slot Card - 2 / 3 Analog Inputs - Voltage	RoHS
MiBRX-SC-AI0X-I **	MiBRX Slot Card - 2 / 3 Analog Inputs - Current	RoHS
MiBRX-SC-AI02-V-I **	MiBRX Slot Card - 2 Analog Inputs - 1 Voltage & 1 Current	RoHS
MiBRX-SC-AI02-TC **	MiBRX Slot Card - 2 Analog Inputs - Thermocouple	RoHS
MiBRX-SC-AI03-2TC-1I-ISO	MiBRX Slot Card - 3 Analog Inputs - 2 Thermocouple (Isolated) & 1 Current (Isolated)	RoHS
MiBRX-SC-AI02-RTD **	MiBRX Slot Card - 2 Analog Inputs - RTD	RoHS
MiBRX-SC-AI03-2RTD-1I-ISO-P	MiBRX Slot Card - 3 Analog inputs - 2 RTD (Isolated) & 1 Current (Isolated), With Pluggable Terminals	RoHS
MiBRX-SC-AI02-PT1000	MiBRX Slot Card - 2 Analog Inputs - PT1000	RoHS
MiBRX-SC-A102-NTC	MiBRX Slot Card - 2 Analog Inputs - NTC	RoHS
MiBRX-SC-A102-PTC	MiBRX Slot Card - 2 Analog Inputs - PTC	RoHS
MiBRX-SC-D102-AI01-T	MiBRX Slot Card - 2 Digital Inputs & 1 Analog Input - TC/RTD	RoHS
MiBRX-SC-AO01V/I *	MiBRX Slot Card - 1 Analog Output (Voltage/Current)	RoHS
MiBRX-SC-AO02-V-I *	MiBRX Slot Card - 2 Analog Outputs - 1 Voltage & 1 Current (Isolated)	RoHS
MiBRX-SC-AO02-X-ISO *	MiBRX Slot Card - 2 Analog Outputs - Voltage / Current (Isolated)	RoHS
MiBRX-SC-FI02	MiBRX Slot Card - 2 Fast Inputs (10KHz)	RoHS
MiBRX-SC-F001-TO02-N	MiBRX Slot Card - 1 Fast Output (200KHz) & 2 Transistor Output (NPN)	RoHS
MiBRX-SC-LC02	MiBRX Slot Card - 2 Analog Inputs - Load Cell (24 Bit)	RoHS
MiBRX-SC-DL	MiBRX Slot Card - Datalogging (2MB) & RTC	RoHS
MiBRX-SC-WIFI	MiBRX Slot Card - WIFI	RoHS
MiBRX-SC-PD	MiBRX Slot Card - Portable Downloader	RoHS

***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.