No. of Outputs	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)	2.5 kV
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	0-10V DC ≥1kΩ, 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
Data Memory	32 KB
EEPROM	8 KB
Upload Memory	NA
Max HMI Objects	5000 (Subject to Memory Availability)
Min scan Time	200µs
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

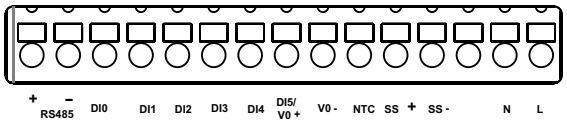
**Limited to 4 Nos*

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: IP65, Terminals: IP20	
Weight	200 grams	
Mounting	Panel Mountable	
Dimensions in mm (HWD)	55 x 101 x 80	
Auxiliary Supply Specifications		
Supply Voltage	With Retention: 180-270V AC @50/60 Hz Without Retention: 90-270V AC @50/60 Hz	18-30V AC
Inrush Current	5A	2.3A
Power Consumption	5VA	5W
Polarity Inversion Protection	YES	
Isolation (Power ↔ Communication)	NO	
Source Supply Output	24V DC, 50mA	-

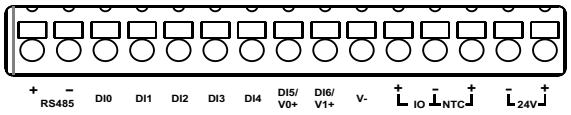
Note: *A maximum of 25 variables of type VAR_IN_OUT and VAR_OUTPUT (each 32-bit) can be retained when operating at 110V.*

Terminal Connections

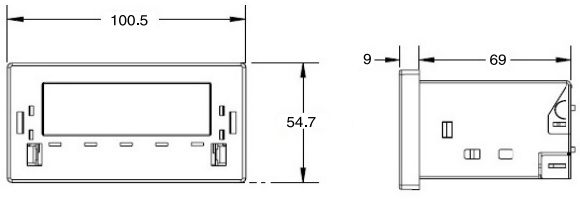
MiBRX-48-0-0-230V



MiBRX-48-0-0-24VDC



Dimensions (All are in mm)



Ordering information

Product code	Description	Certification
MiBRX-48-0-0-230V	MiBRX 48x96 Base module - 230VAC - 2 Slots, 6DI (incl 1FI, 1AI-V), NTC	
MiBRX-48-0-0-24VDC	MiBRX 48x96 Base module - 24VDC - 2 Slots, 7DI (incl 1FI, 2AI-V), 1AI-I, NTC	

Supported display modules

Product code	Description	Certification
MiBRX-DSP-48-7-2-11-A	MiBRX Display 48x96 - 7 Seg (3+4 & 4 digit), 6 LED, 10 Bar Graph LED	
MiBRX-DSP-48-7-2-14-B	MiBRX Display 48x96 - 7 Seg (8 & 6 digit), 8 LED	

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
www.selec.com/software	
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

IO Cards	Description	Certification
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-D102-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-A102-NTC	MiBRX Slot Card - 2 Analog Inputs - NTC	
MiBRX-SC-A102-PTC	MiBRX Slot Card - 2 Analog Inputs - PTC	
MiBRX-SC-D102-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-F001-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.