



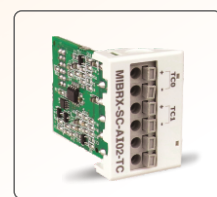
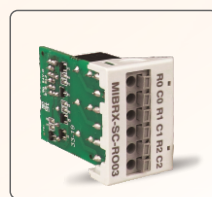
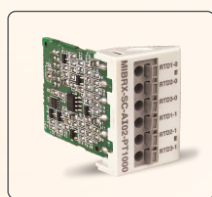
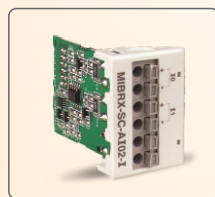
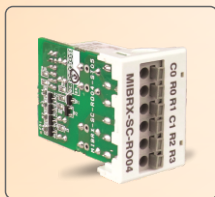
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Creating Best Value

UNPRECEDENTED MODULARITY



Patents Applied Worldwide

Wide Range of Miniature IO Cards



Standard Ladder Programming Software

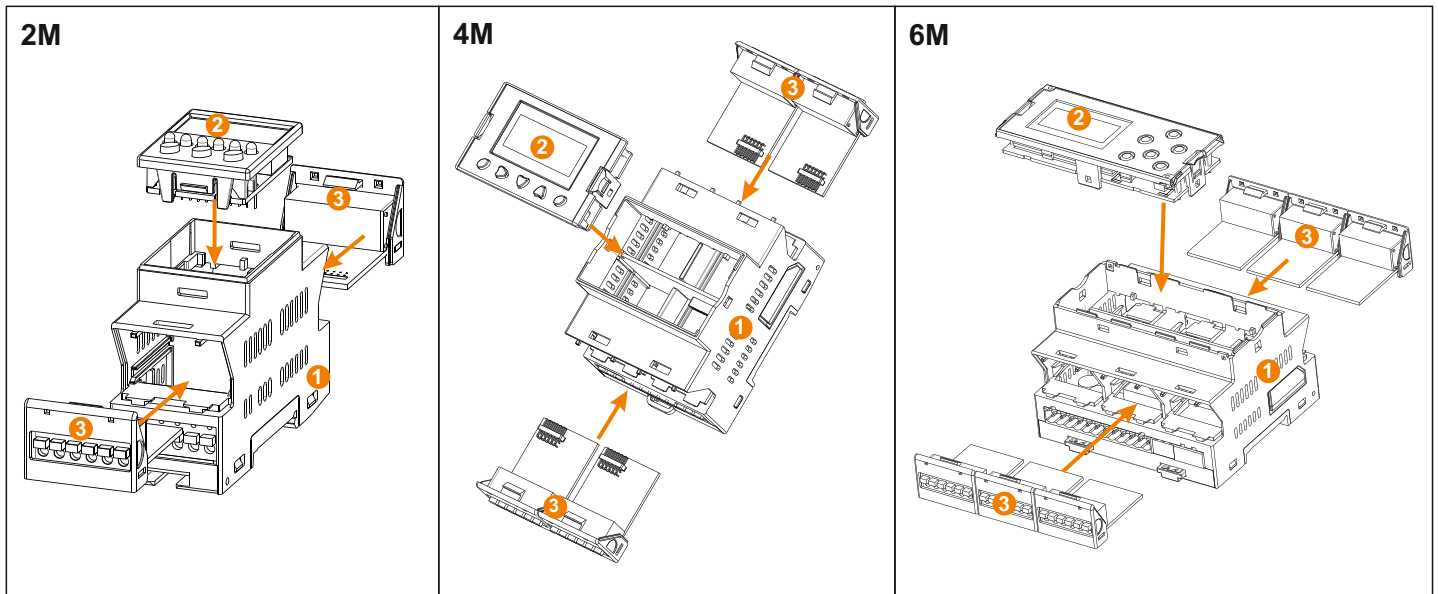
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We are dedicated to help you get started with using the Selec MIBRX Modular PLC-System to develop easy and fast solutions. Here is an overview of what you need, to get started with the MiBRX PLC.

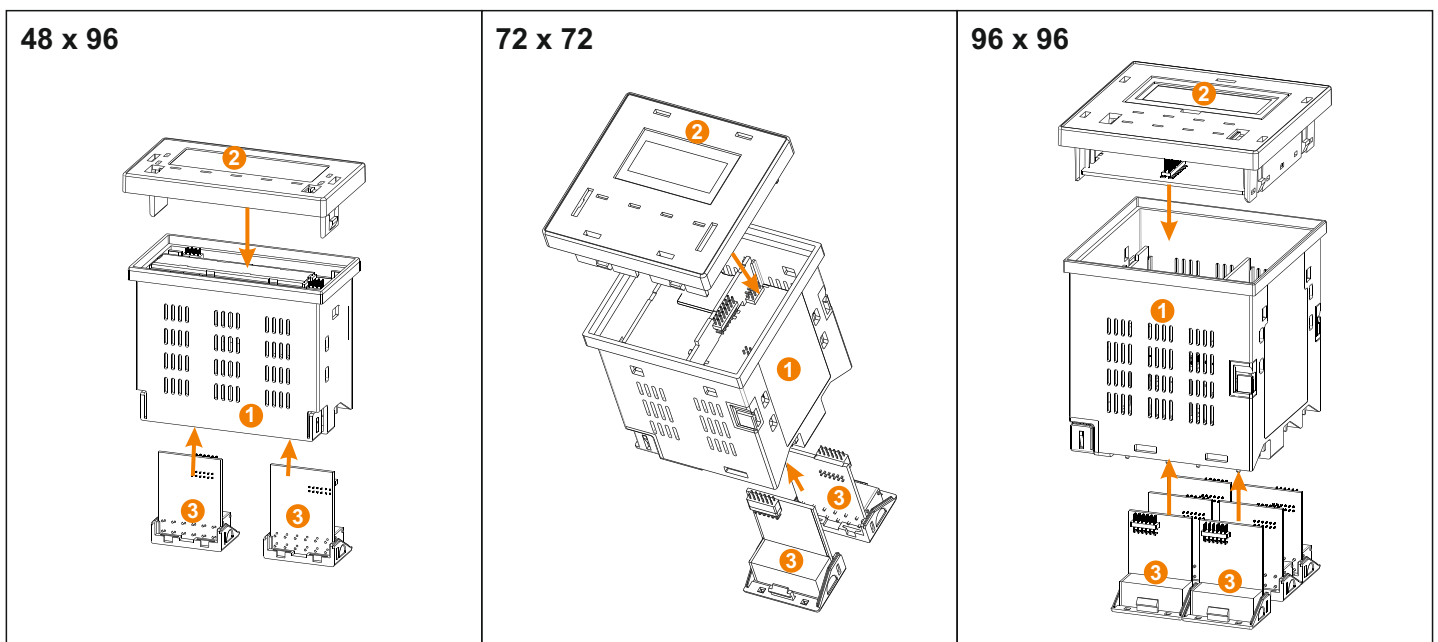
What do I need to work with **MIBRX**?

- 1) 1 Base module
- 2) 1 Display unit
- 3) I/O cards (0 to 6, depending on your needs and the size of your selected base module)
- 4) AC-USB-RS485-02 (Program downloading cable USB to 2 pin open wire)
- 5) Standard PLC Programming Software - Selpro
- 6) External 24V Power Supply (if applicable)

Din-Rail Series



Panel Mount Series








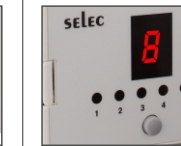

2M
35(W) x 90(H) x 60(D)mm



4M
70(W) x 90(H) x 66.4(D)mm










6M
105(W) x 90(H) x 66.4(D)mm

FEATURES	<ul style="list-style-type: none"> Modular PLC with pluggable display RTC with time switch functions (Optional) Flexible IO card selection 		<ul style="list-style-type: none"> Modular PLC with pluggable display Flexible IO card selection Expandable RTC with time switch functions 		<ul style="list-style-type: none"> Modular PLC with pluggable display Flexible IO card selection Expandable RTC with time switch functions 	
DISPLAY TYPE	7 Segment LED		LCD with green backlight & black font	7 Segment LED		LCD with green backlight & black font
DIGITS	4 Red	1 Red	2 lines x 8 characters (Font size 5x7mm)	1 Red	2 lines x 8 characters (Font size 5x7mm)	
LED BANKS	6 Red LED		---	6 Red LED		---
NO. OF KEYS	3 Keys (2 User configurable)		1 Key	5 keys (4 User configurable)		1 key
NO. OF SLOTS	2		4		6	
SUPPLY VOLTAGE	18 to 30V AC	12 to 30V DC	100 to 270V AC	12 to 30V DC	100 to 270V AC	12 to 30V DC
DIGITAL INPUTS	3		4 + 1*		10 + 1*	
INPUT TYPE & RANGE	PNP (5-30V)					
FAST INPUT	1					
MAXIMUM COUNTING FREQUENCY	5kHz (PNP)					
ANALOG INPUT	As per Slot I/O card			1 (Voltage 0-10V)		
RESOLUTION	As per Slot I/O card			12 BIT		
DIGITAL OUTPUT	As per Slot I/O card				4 Relay	
TYPE AND RATING	As per Slot I/O card				5A NO Type@ 250VAC/30VDC	
COMMUNICATION INTERFACE	RS485 Modbus RTU Protocol (Slave)			RS485 Modbus RTU Protocol (Master - Slave)		
PROGRAM MEMORY	112 Kb			240 Kb		
RTC	Optional			Yes		
PLUGGABLE DISPLAY MODULES						
	MIBRX-DSP-2M-7-1-04-A	MIBRX-DSP-2M-0-1-06-A	MIBRX-DSP-4M-8-2-08-A	MIBRX-DSP-4M-0-1-06-A	MIBRX-DSP-6M-8-2-08-A	

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

Ordering Information

Product code	Description	Certification
MIBRX-2M-1-0-0-24VDC	24V DC Power supply without master communication & RTC	CE 
MIBRX-2M-1-0-0-24VAC	24V AC Power supply without master communication & RTC	CE 
MIBRX-4M-1-1-1-24VDC	24V DC Power supply with master communication & RTC	CE 
MIBRX-4M-1-1-1-230V	230V Power supply with master communication & RTC	CE 
MIBRX-4M-1-0-0-230V	230V Power supply without master communication & RTC	CE 
MIBRX-6M-1-1-1-230V	230V Power supply with master communication & RTC	CE 
MIBRX-6M-1-1-1-24VDC	24V DC Power supply with master communication & RTC	CE 








48 x 96
96(W) x 48(H) x 69(D)mm



72 x 72
72(W) x 72(H) x 71.35(D)mm













96 x 96
96(W) x 96(H) x 99.1(D)mm

FEATURES	<ul style="list-style-type: none"> Modular PLC with pluggable display RTC with time switch functions (Optional) Flexible IO card selection 		<ul style="list-style-type: none"> Modular PLC with pluggable display Flexible IO card selection RTC with time switch functions 		<ul style="list-style-type: none"> Modular PLC with pluggable display Flexible card selections Expandable RTC with time switch functions 		
DISPLAY TYPE	7 Segment LED		LCD with blue backlight & black font	7 Segment LED-White+Green		LCD with Green backlight	LCD with White backlight
DIGITS	(3 + 4) Red + 4 Green	(4 + 4) Red + 6 Green	2 lines x 8 characters (Font size 5x7mm)	6 White + 4 Green		4 lines x 16 characters (Font side 5x7mm)	Customized segments
LED BANKS	LED banks 6 Red round LEDs + 10 Red LEDs (Bar graph)	4 Red + 4 Green LED	---	4 Red		---	---
NO. OF KEYS	5 Touch keys (4 User configurable)		4 Touch keys (3 User configurable)		8 Touch keys (7 User configurable)		5 Touch keys (4 User configurable)
NO. OF SLOTS	2		2		6		
SUPPLY VOLTAGE	100 to 270V AC	12 to 30V DC	100 to 270V AC	12 to 30V DC		100 to 270V AC	12 to 30V DC
DIGITAL INPUTS	5 + 1*	5 + 2*	3 + 1*		3 + 1*		5 + 1*
INPUT TYPE & RANGE	PNP (5-30V)						
FAST INPUT	1						
MAXIMUM COUNTING FREQUENCY	5kHz (PNP)						
ANALOG INPUT	1 (Voltage 0-10V)	3 (2 Voltage & 1 current 0-10V & 0-20mA)	1 (Voltage 0-10V)	2 (Voltage & Current 0-10V & 0-20mA)		1 (Voltage 0-10V)	2 (Voltage & Current 0-10V & 0-20mA)
RESOLUTION	12 BIT						
DIGITAL OUTPUT	As per Slot I/O card		3 Relay	4 Relay		As per Slot I/O card	
TYPE AND RATING	As per Slot I/O card		5A NO Type@ 250VAC/30VDC			As per Slot I/O card	
COMMUNICATION INTERFACE	RS485 Modbus RTU Protocol (Slave)		RS485 Modbus RTU Protocol (Master - Slave)				
PROGRAM MEMORY	240 Kb						
RTC	Optional		Yes				
SENSOR SOURCE	24V, 50mA (230VAC Variant)						
PLUGGABLE DISPLAY MODULES							
	MIBRX-DSP-48-7-2-11-A	MIBRX-DSP-48-7-2-14-B	MIBRX-DSP-72-8-2-08-B	MIBRX-DSP-72-7-2-10-B	MIBRX-DSP-96-8-4-16-A		

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

Ordering Information

Product code	Description	Certification
MIBRX-48-0-0-230V	230V AC Power supply & Logic	CE 
MIBRX-48-0-0-24VDC	24V DC Power supply & Logic	CE 
MIBRX-48-1-1-24VDC	24VDC Power Supply with RTC	CE 
MIBRX-72-0-1-230V	230V Power supply with RTC	CE 
MIBRX-72-0-0-230V	230V Power supply without RTC	CE 
MIBRX-72-0-1-24VDC	24V DC Power supply & logic	CE 
MIBRX-72-0-0-24VDC	24V DC Power supply & logic	CE 
MIBRX-96-1-1-230V	230V Power supply with RTC	CE 
MIBRX-96-1-0-230V	230V Power supply without RTC	CE 
MIBRX-96-1-1-24VDC	24VDC Power Supply with RTC	CE 

Digital I/O specifications

Digital input

	Input voltage range	Response time	Debounce time
MIBRX-SC-DI04 MIBRX-SC-DI06	5-30V	Depends on debounce time & ladder execution time	10ms

Fast input

	Input type	Input frequency
MIBRX-SC-FI02	PNP / NPN (Jumper selectable)	10kHz

Digital output

	Contact rating	Response time	Contact-Isolation
MIBRX-SC-RO04 MIBRX-SC-RO03	5A 250VAC/30VDC	10ms	Yes

	Rated voltage	Output current	Response time	Isolation between outputs
MIBRX-SC-TO04	18V to 30V DC (External)	100mA	10ms	4kV

Fast output

	Output type	Output frequency
MIBRX-SC-FO01-TO01	PNP / NPN (Terminal selectable)	10kHz

Analog I/O specifications

Analog inputs























	Analog type	Resolution	Conversion time	Accuracy
MIBRX-SC-AI02-I	CURRENT (0-20mA)	12BIT	100ms	0.25%
MIBRX-SC-AI02-V	VOLTAGE (0-10V)	12BIT	100ms	0.25%
MIBRX-SC-AI02-NTC	NTC	12BIT	100ms	0.25%
MIBRX-SC-AI02-PTC	PTC	12BIT	100ms	0.25%
MIBRX-SC-AI02-TC	J, K, T, R, S, C, E, B, N, L, U, W, PLTNL, mVolt (-5 to 65mV)	12BIT	100ms	0.25%
MIBRX-SC-AI02-RTD	RTD (PT100)	12BIT	100ms	0.25%
MIBRX-SC-AI02-PT1000	RTD (PT1000)	12BIT	100ms	0.25%
MIBRX-SC-LC02	Loadcell	12BIT	50ms to 400ms	...

Analog output





















	Output type	Resolution	Digital resolution	Conversion time
MIBRX-SC-AO01-V/I	VOLTAGE (0-10V) / CURRENT (0-20mA)	12BIT	0.0 to 100.0% = 0 to 10V / 0.0 to 100.0% = 0 to 20mA	100ms

Ordering Information

Supported I/O cards

IO cards	Description	Certification
MIBRX-SC-DI04	4-Digital inputs card	 
MIBRX-SC-DI06	6-Digital inputs card	 
MIBRX-SC-RO03	3-Channel relay output card	 
MIBRX-SC-RO04	4-Channel relay output card	 
MIBRX-SC-TO04	4-Channel transistor output card	 
MIBRX-SC-DI02-RO02	2-Digital input + 2-Channel relay output card	 
MIBRX-SC-DI02-TO02	2-Digital input + 2-Channel transistor output card	 
MIBRX-SC-AI02-I	2-Channel analog input card - Current	 
MIBRX-SC-AI02-V	2-Channel analog input card - Voltage	 
MIBRX-SC-AI02-V-I	2-Channel analog input card - Voltage-Current	 
MIBRX-SC-DL	Datalogging & RTC card	 

Supported I/O cards

IO cards	Description	Certification
MIBRX-SC-AI02-NTC	2-Channel analog input card - NTC	 
MIBRX-SC-AI02-PTC	2-Channel analog input card - PTC	 
MIBRX-SC-AI02-TC	2-Channel analog input card - Thermocouple	 
MIBRX-SC-AI02-RTD	2-Channel analog input card - RTD	 
MIBRX-SC-AI02-PT1000	2-Channel analog input card - PT1000	 
MIBRX-SC-AO01-V/I	1-Channel analog output (voltage / current)	 
MIBRX-SC-FI02	2-Channel fast input card	 
MIBRX-SC-FO02	2-Channel fast output card	 
MIBRX-SC-LC02	2-Channel loadcell input card	 
MIBRX-SC-RO04-12V	4-Channel relay output card	 
MIBRX-SC-DI06-AC	6-Digital input card - AC	