PRM

Extension Module

Extension module

PRM provides the quickest and the most convenient, as regards installation and configuration, digital or analog I/O extension for the PR200 Programmable Relay from akYtec.

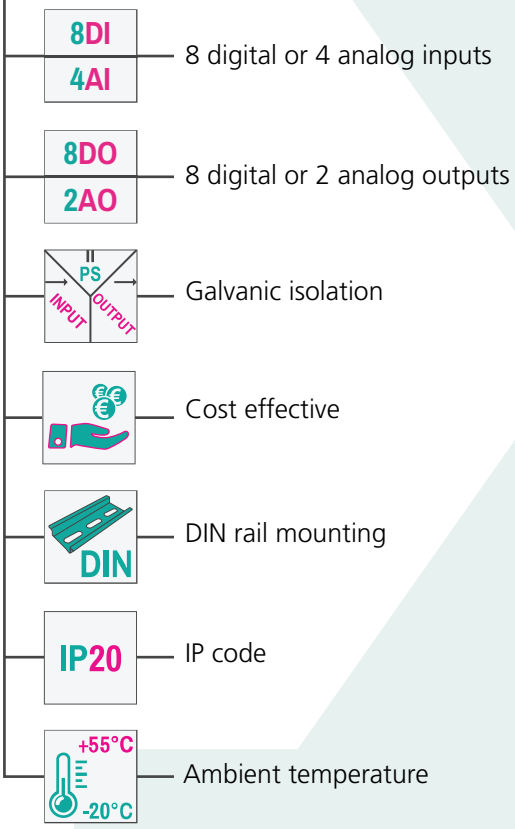
This module connects to the PR200 base unit directly over the internal bus, which ensures much faster and reliable communication as compared to RS485/Modbus. Moreover, the communication over the internal bus requires no additional I/O configuration as it is with Modbus registers.

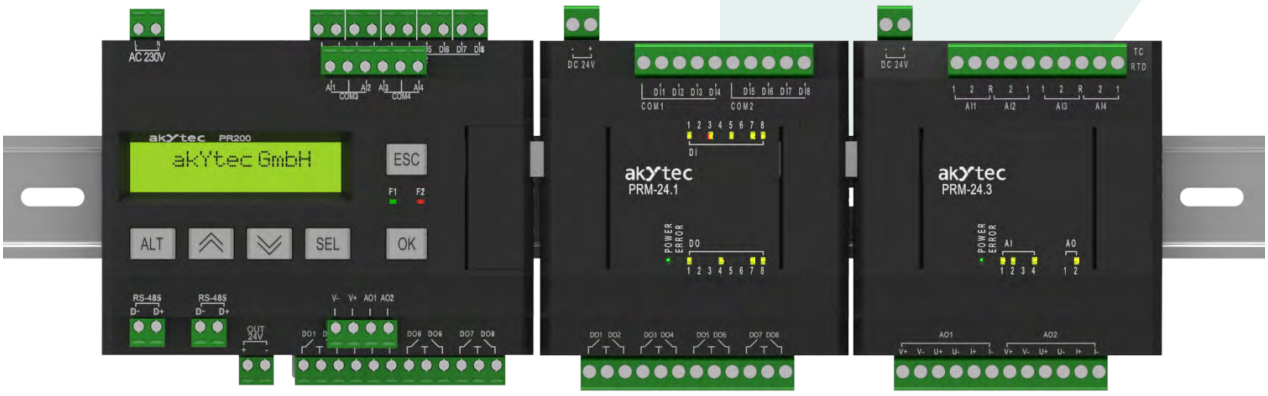


Functions and features:

- Independent power supply (24V DC or 230V AC on option)
- The same high-speed performance as that of the PR200 base unit
- Easy connection, removal and replacement
- Galvanic isolation between power supply and I/O groups

Standard variants	Description	Enclosure
PRM-230.1	230 V AC voltage, 8 DI and 8 DO relay	DIN rail / wall 80 x 108 x 58 mm
PRM-24.1	24 V DC voltage, 8 DI and 8 DO relay	
PRM-230.3	230 V AC voltage, 4 AI and 2 AO	
PRM-24.3	24 V DC voltage, 4 AI and 2 AO	





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Technical Data:

		PRM-230.1		PRM-24.1
General				
Power supply		230 (90...264) V AC; 50 (47…63) Hz		24 (19...30) V DC
Power consumption, max.		8 VA		4 W
Mounting		DIN rail (switchboard / distribution box)		
Ambient temperature		-20...+55 °C		
IP code		IP20		
Dimensions		80 x 108 x 58 mm		
Weight		approx. 210 g		approx. 315 g
Digital inputs				
Quantity		8		
Type		Switch contact		switch contact, PNP with open collector
Logical states	1	159...264 V AC (0.75...1.5 mA)	1	15...30 V DC (5 mA)
	0	0...40 V AC (0...0.5 mA)	0	-3...+5 V DC (0...1 mA)
Galvanic isolation		in groups of 4		
Digital outputs				
Quantity		8		
Type		relay (NO)		
Galvanic isolation		in groups of 2		
Switching capacity	AC	5 A, 250 V (resistive load)		
	DC	3 A, 30 V		
Minimum load current		10 mA (at 5 V DC)		

		PRM-230.3		PRM-24.3
General				
Power supply		230 (90...264) V AC; 50 (47…63) Hz		24 (19...30) V DC
Power consumption, max.		8 VA		4 W
Mounting		DIN rail (switchboard / distribution box)		
Ambient temperature		-20...+55 °C		
IP code		IP20		
Dimensions		80 x 108 x 58 mm		
Weight		approx. 210 g		approx. 315 g
Analog inputs				
Quantity		4		
Type		TC, RTD, (0)4-20 mA, 0-1 V, -50-50 mV, 0 … 3950 Ω		
ADC resolution		16 bit		
Sampling time for one input, max.		0.6-0.8 s		
Accuracy	TC	5 %		
	RTD	0.25 %		
	I/U	0.25 %		
Analog input resistance, min.		10 kΩ		
Analog outputs				
Quantity		2		
Type		0-24 mA, 0-20 mA, 4-20 mA ,0-5 V ,0-10 V		
DAC resolution		12 bit		
Accuracy		± 0.5 %		
Temperature influence		± 0.25 %		
Galvanic isolation between outputs		2830 V		
Voltage supply (external, each output)		15-30 V DC		
Accuracy		± 0.5 %		
Output load (max.)		1000 Ω (0-5 mA, 0-20 mA, 4-20 mA) 300 Ω (0-5 V, 0-10 V)		

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We will be glad to assist you! Tel.: +49 (0) 511 16 59 672-0