

PRM

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	

The PRM expansion modules are compatible with all akYtec programmable relays except the PR100.



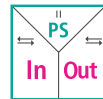
8 digital inputs or 8 digital outputs

8 DI
OR
8 DO

4 analog inputs or 2 analog outputs

4 AI
OR
2 AO

Galvanic isolation



Cost effective



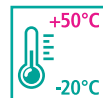
DIN rail mounting



IP code

IP20

Ambient temperature



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. 250 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)	15...30 V DC (5 mA)
0	0...40 V AC (0...0.5 mA)	-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. 250 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	0.5 %	
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	
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 (0-24 mA, 0-20 mA, 4-20 mA) 300 Ω (0-5 V, 0-10 V)	