

PR200

The programmable relay PR200 is a small PLC designed in a plastic enclosure for DIN rail mounting. The relay is available in several versions, for DC and AC voltage, equipped with only digital or a combination of digital and analog inputs and outputs. The device has a 2-line 32-character LCD display. A real-time clock and up to 2 RS485 interfaces for connection to Modbus networks are available. The relay can be expanded with additional I/O-Modules (for example, our modules of Mx110 series). User application is created as a function plan with the programming software 'akYtec ALP', included on the USB stick. The PR200 features a mini-USB port for transferring the user application from PC.

Functions and features:

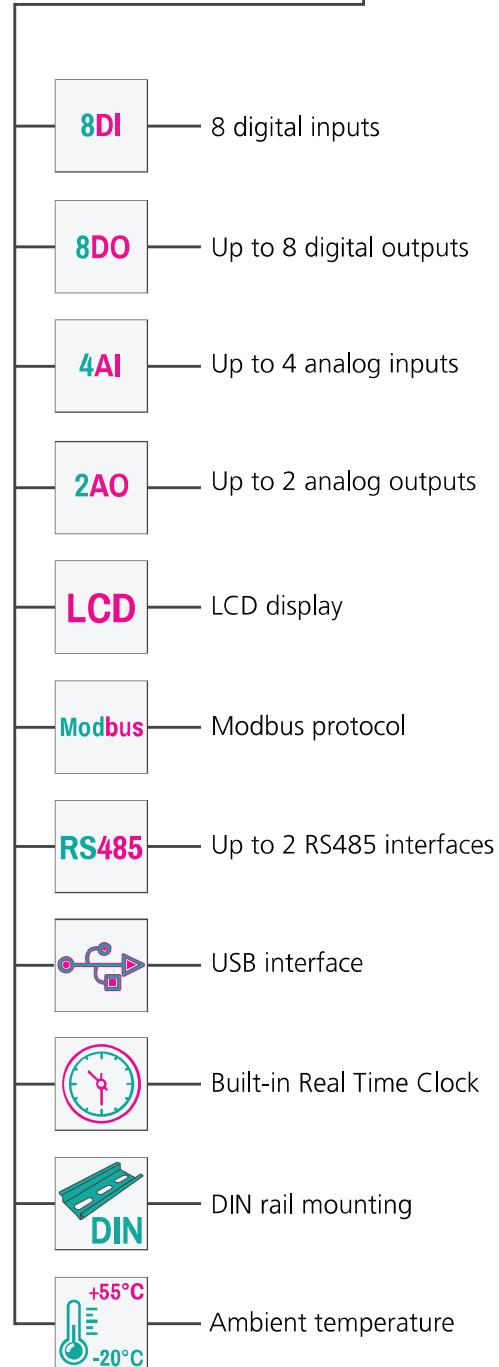
- Up to 8DI + 8DO + 4AI + 2AO + LCD + 2xRS485 in one device
- Connecting different sensors 4-20mA, 0-10V, resistance-type (PTC, KTY thermistors, Pt1000) and actuators
- Control of the outputs according to the input status and the logic of the user application
- Configuration with the function buttons or using ALP software
- Comprehensive programming of LCD display
- 2 programmable LEDs
- Master and / or Slave in a Modbus network
- Real-time clock
- Extension modules

Areas of application:

- Building automation
- Indoor and outdoor lighting, shop window lighting, access systems
- Technical equipment such as pumps, fans, compressors, presses
- Conveyor and filling systems
- Lifting systems etc.



Free of charge software included



PR200

Ordering code:

PR200 -	X	.	X	.	X
			230		
			24		
				1	

Supply voltage

230 (94...264) V AC

230

24 (19...30) V DC

24

I/O

8 DI, 6 DO

1

8 DI, 4 AI, 8 DO, 2 AO (4-20 mA)

2

8 DI, 4 AI, 8 DO, 2 AO (0-10 V)

4

Interface

none

0

RS485

1

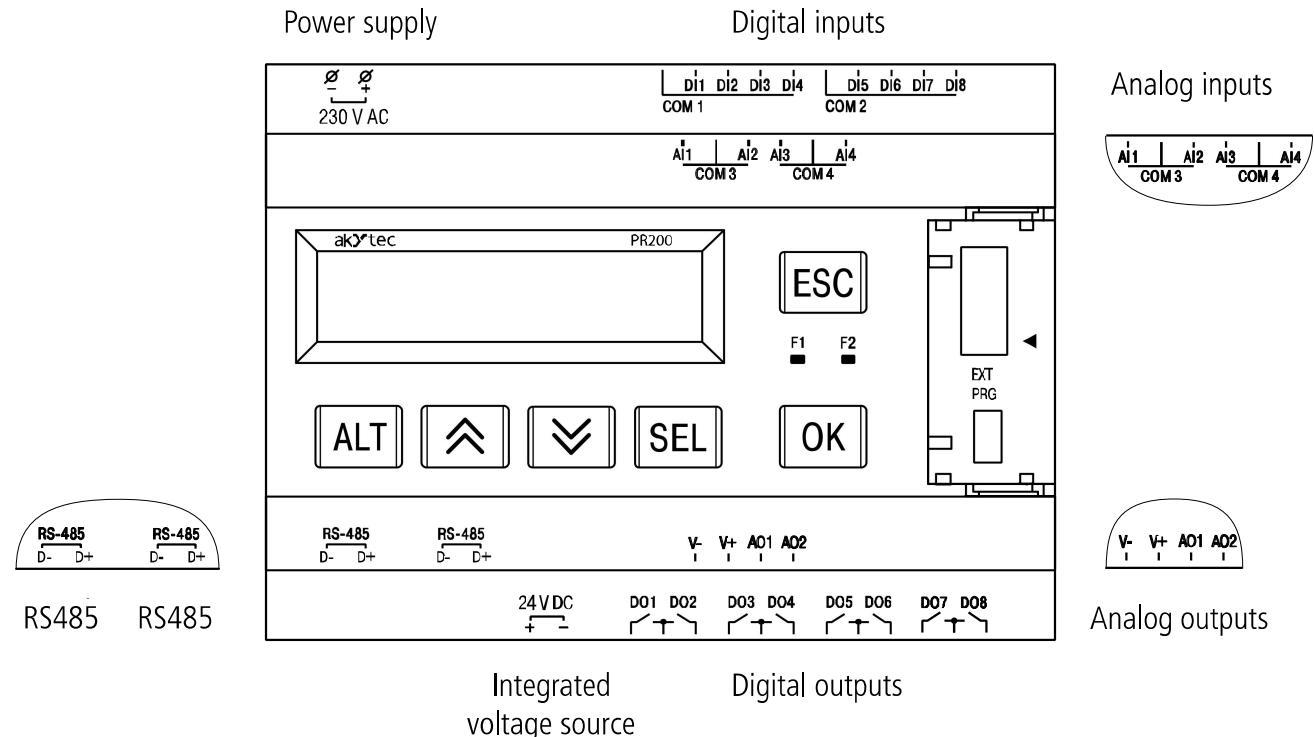
2x RS485

2

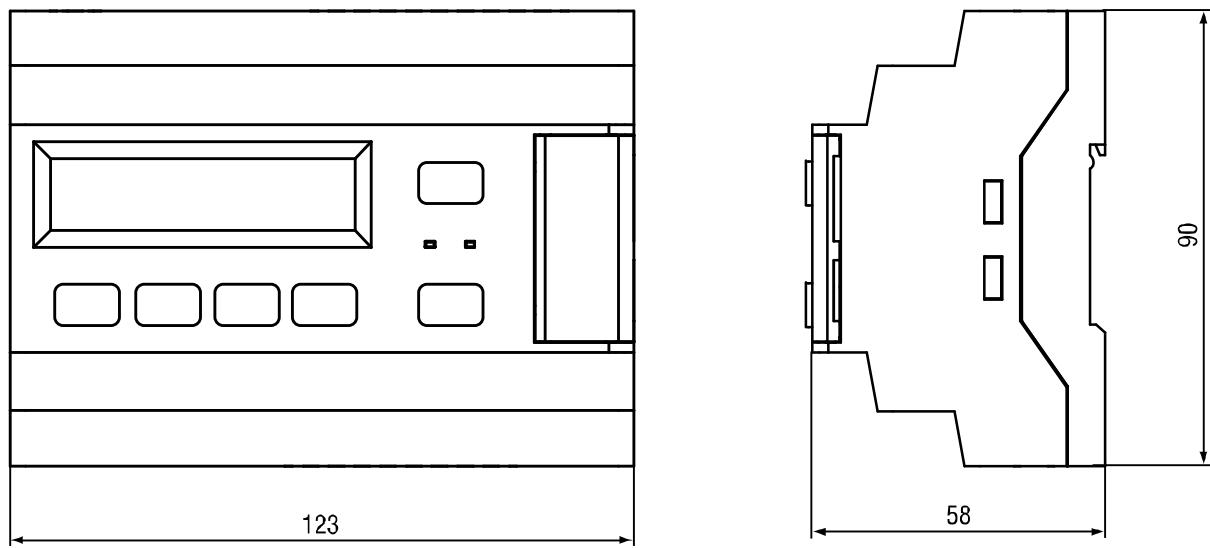
Standard variants	Description	Enclosure
PR200.24.1.1	24V DC, 8DI + 6DO, LCD, 1x RS485 (Modbus RTU/ASCII)	123 x 108 x 58 mm, DIN rail
PR200.24.2.0	24 V DC, 8DI + 8DO + 4AI + 2AO (4-20 mA), LCD	123 x 108 x 58 mm, DIN rail
PR200.24.2.2	24 V DC, 8DI + 8DO + 4AI + 2AO (4-20 mA), LCD, 2x RS485 (Modbus RTU/ASCII)	123 x 108 x 58 mm, DIN rail
PR200.24.4.0	24 V DC, 8DI + 8DO + 4AI + 2AO (0-10 V), LCD	123 x 108 x 58 mm, DIN rail
PR200.24.4.2	24 V DC, 8DI + 8DO + 4AI + 2AO (0-10 V), LCD, 2x RS485 (Modbus RTU/ASCII)	123 x 108 x 58 mm, DIN rail
PR200.230.1.1	230 V AC, 8DI + 6DO, LCD, 1x RS485 (Modbus RTU/ASCII)	123 x 108 x 58 mm, DIN rail
PR200.230.2.0	230 V AC, 8DI + 8DO + 4AI + 2AO (4-20 mA), LCD	123 x 108 x 58 mm, DIN rail
PR200.230.2.2	230 V AC, 8DI + 8DO + 4AI + 2AO (4-20 mA), LCD, 2x RS485 (Modbus RTU/ASCII)	123 x 108 x 58 mm, DIN rail
PR200.230.4.0	230 V AC, 8DI + 8DO + 4AI + 2AO (0-10 V), LCD	123 x 108 x 58 mm, DIN rail
PR200.230.4.2	230 V AC, 8DI + 8DO + 4AI + 2AO (0-10 V), LCD, 2x RS485 (Modbus RTU/ASCII)	123 x 108 x 58 mm, DIN rail

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Terminal layouts PR200-230.2.2:



Dimensions:



PR200

Technical Data:

	PR200.230.1	PR200.230.2	PR200.24.1	PR200.24.2
General				
Power supply	230 (90...264) V AC; 50 (47...63) Hz		24 (19...30) V DC	
Power consumption, max.	10 VA	17 VA		10 W
Integrated voltage source	–	24±3 V DC, 100 mA		–
Display	LCD with backlight, 2-line, 2x16-characters		LCD with backlight, 2 line, 2x16-characters	
Function keys	6		6	
Real Time Clock	Backup 8 years (CR2032)		Backup 8 years (CR2032)	
Mounting	DIN rail (switchboard / distribution box)		DIN rail (switchboard / distribution box)	
Ambient temperature	-20...+55 °C		-20...+55 °C	
IP code	IP20		IP20	
Dimensions	123 x 108 x 58 mm		123 x 108 x 58 mm	
Weight	approx. 350 g		approx. 350 g	
Programming				
Programming environment	akYtec ALP		akYtec ALP	
Programming language	FBD		FBD	
ROM	128 kB		128 kB	
Retain memory	1016 Byte		1016 Byte	
Interfaces				
RS485	optional, up to 2 x		optional, up to 2 x	
Protocols	Modbus RTU / ASCII (Master / Slave)		Modbus RTU / ASCII (Master / Slave)	
Baud rate	9.6...115.2 kbit/s		9.6...115.2 kbit/s	
Programming interface	Mini-USB		Mini-USB	
Digital inputs				
Quantity	8		8	
Type	Switch contact		Switch contact, PNP with open collector, Digital signals -3...+30 VDC	
Logical states	1 0	159...264 V AC (0.75...1.5 mA) 0...40 V AC (0...0.5 mA)	1 0	15...30 V DC (5 mA) -3...+5 V DC (0...1 mA)
Galvanic isolation		in groups of 4		in groups of 4
Universal inputs				
Quantity		4		4
Mode		Analog / Digital		Analog / Digital
Galvanic isolation		none		none
Analog input		0-10 V, 4-20 mA, 0...4 kohm		0-10 V, 4-20 mA, 0...4 kohm
ADC resolution		12 bit		12 bit
Digital outputs				
Quantity	6	8	6	8
Type		relay (NO)		relay (NO)
Galvanic isolation		in groups of 2		in groups of 2
Switching capacity	AC DC	5 A, 250 V (resistive load) 3 A, 30 V	AC DC	5 A, 250 V (resistive load) 3 A, 30 V
Minimum load current		10 mA (at 5 V DC)		10 mA (at 5 V DC)
Analog outputs				
Quantity		2		2
Type		4-20 mA		4-20 mA
Loading capacity		12...30 V, max. 1 kohm		12...30 V, max. 1 kohm
DAC resolution		10 bit		10 bit