PR100

PR100 is a compact Mini-PLC designed to solve basic automation tasks in, for example, lighting control, pumping control, ventilation and heating control, and other simple control systems.

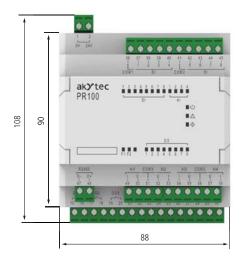
With its minimum width, which measures as narrow as five standard MCBs placed inline, and dedicated enclosure form, the PR100 Mini-PLC allows for space-saving installation even in smaller consumer units, not to mention control cabinets. This device can operate in non-heated environments down to -40°C as well as in heated ones in temperatures up to +55°C.

An application program is written in function block format in the akYtec ALP programming software available free of charge. The control algorithm is uploaded to the device memory through a micro USB cable.

Functions and features:

- Built-in 8DI + 8DO + 4AI + 1xRS485 in one device
- A total of 20 I/Os
- Configurable inputs for 4-20mA, 0-10V
- RS485 interface with Modbus RTU / ASCII | Master/Slave
- USB-powered in the programming mode
- Real-time clock
- Software-based features include: retain variables, day timer, week timer, PID control, etc.

Dimensions:





8 digital inputs



8 digital outputs



4 analog inputs



Protocol Modbus RTU/ASCII



RS485 interface



USB interface



Built-in real-time clock



DIN rail mounting



Software at no charge



Ambient temperature



Technical Data:

General	
Power supply	24 (930) V DC
Power consumption, max.	4 W
Real Time Clock	Backup 5 years (CR2032)
Real Time Clock accuracy	± 3 s/day
Extension modules	none
Programming	
Programming environment	akYtec ALP
Programming language	FBD
Programming interface	Mini-USB
Memory	<u> </u>
ROM	128 kB
RAM	16 kB
Retain memory	1 kB
Network variables	128 Byte
Communication	
Interface	RS485
Protocols	Modbus RTU / ASCII (Master / Slave)
Baud rate	9.6115.2 kBit/s
Digital inputs	
Quantity	8
Type	Switch contact
Logical states	
1	8.530 V DC (25 mA)
0	-3+5 V DC (015 mA)
Galvanic isolation	in groups of 4
Universal inputs	g. 20p2 2
Quantity	4
Mode	Analog / Digital
Galvanic isolation	none
Analog input	4-20 mA, 0-10 V
ADC resolution	12 bit
Digital outputs	
Quantity	8
Type	relay, NO
Galvanic isolation	individual
Switching capacity	
AC	5 A, 250 V (resistive load)
DC	3 A, 30 V
Minimum load current	10 mA (at 5 V DC)
Environment	
Ambient temperature	-40+55 °C
Storage temperature	-25+55 °C
Humidity	up to 80 % (at +25 °C, non-condencing)
IP Code	IP20
Enclosure	
Enclosure Dimensions	88 × 108 × 58 mm
	88 × 108 × 58 mm approx. 250 g

The Mini-PLC PR100 cannot be expanded with PRM extension modules.

