

PR114

Programmable relay

Due to the programmable relay PR114 users can cost-effectively implement from simple to complex control tasks in various application areas. Universal (digital/analog) input and outputs as well as the universal (24 V DC / 230 V AC) power supply make the PR114 particularly flexible. Free akYtec ALP software is used for programming. Due to the built-in real-time clock, different tasks with a time reference can be implemented. If necessary, the relay can also be integrated in an RS485 network as a Modbus slave. What is needed is just a PR-MI485 interface adapter connected directly to the relay without requiring any auxiliary power supply. For implementing complex projects, the PR114 also has extensive hardware resources such like retain memory.

Areas of applications:

- Indoor and outdoor lighting, shop window lighting and access systems
- Control of compressors
- Control of fans
- Control of pumps
- Control of lifting, conveyor and filling systems

Ordering code:

PR114 - 224. 8D.4A. 4R.

XXXX

RTC

Outputs

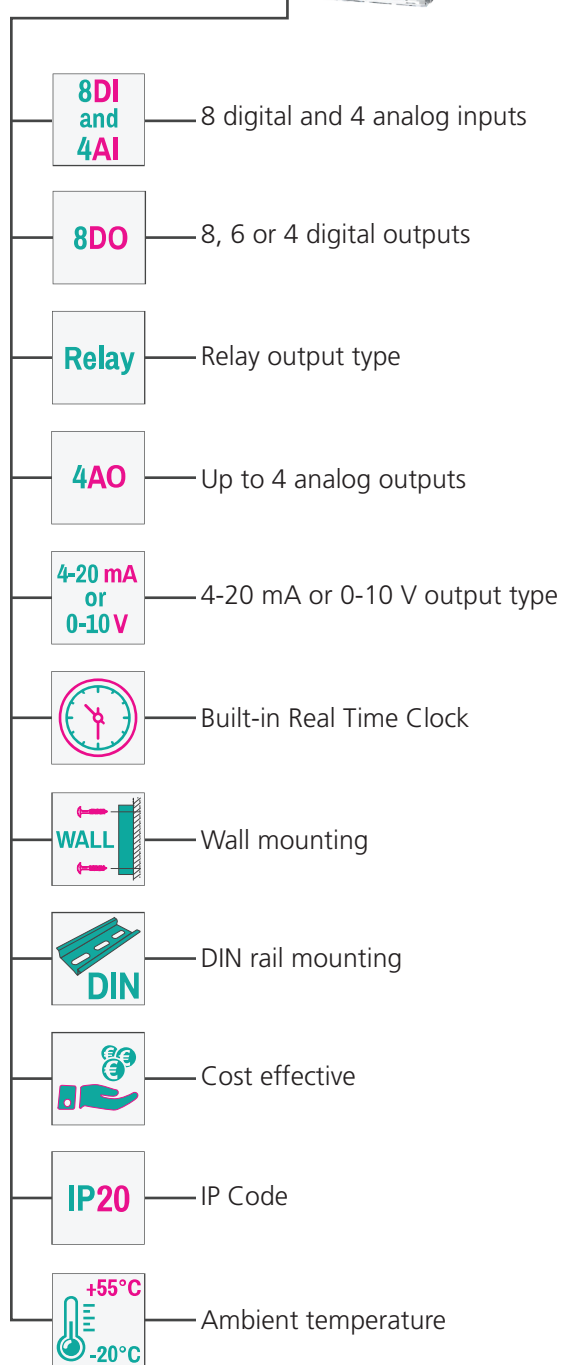
Relay	R
NPN*	K
Optical TRIAC*	S
Logic output*	T
Analog 4-20 mA*	I
Analog 0-10 V*	U

Real Time Clock

*On request

Various types of outputs should be indicated in the order key only in the certain sequence: R -> K -> S -> T -> I -> U

Standard variants	Description	Enclosure
PR114-224.8D.4A.4R. IIII-RTC	230 V AC / 24 V DC, 8DI + 4AI + 4DO + 4AO + RTC	DIN rail / wall 96 × 110 mm
PR114-224.8D.4A.4R. RRII-RTC	230 V AC / 24 V DC, 8DI + 4AI + 6DO + 2AO + RTC	DIN rail / wall 96 × 110 mm
PR114-224.8D.4A.4R. RRRR-RTC	230 V AC / 24 V DC, 8DI + 4AI + 8DO + RTC	DIN rail / wall 96 × 110 mm
PR114-224.8D.4A.4R. UUUU-RTC	230 V AC / 24 V DC, 8DI + 4AI + 4DO + 4AO + RTC	DIN rail / wall 96 × 110 mm



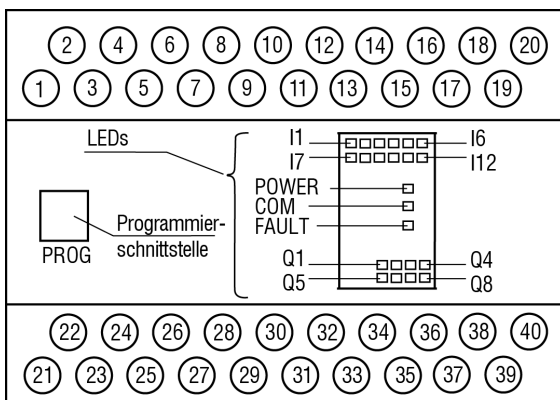
PR114

Technical Data:

PR114-224.8D4A.8R

General		
Power supply		230 (90...264) V AC; 50 / 60 (47...63) Hz or 24 (20...27) V DC
Power consumption, max.		10 VA
Integrated voltage source		24±3 V DC, 140 mA
Real Time Clock		yes
DI/DO status indicators		LED
Communication protocols		Modbus RTU / ASCII (Slave)
Mounting		DIN rail / wall
Ambient temperature		-20...+55 °C
IP code		IP20
Dimensions		96 × 110 × 73 mm
Weight		approx. 410 g
Programming		
Programming environment		akYtec ALP
Programming language		FBD
Program memory		450 FBs
Retain memory		136 byte
Programming interface		UART, USB (available with PR-KP20)
Digital inputs (I1...I8)		
Quantity		8
Type		switch contact, PNP, 24±3 V DC
Logical states	1	15...30 V DC (2...4 mA)
	0	-3...+5 V DC (≤ 0.1 mA)
Galvanic isolation		in groups of 4
Universal inputs (I9 ... I12)		
Quantity		4
Type		digital / analog
Galvanic isolation		none
Analog input		analog 0-10 V, 4-20 mA or digital
ADC Resolution		12 bit
Digital outputs (Q1...Q8)		
Quantity		8
Type		relay
Galvanic isolation		yes
Switching capacity	AC	10 A, 250 V (resistive load)
	DC	5 A, 30 V
Minimum load current		10 mA (at 5 V DC)

Front view:



Further optional outputs available:
NPN, opto-triac, SSR
4-20 mA, 0-10 V
(with DAC resolution 10 bit)