

14
I/O
Expandable



PR-14

Model: PR-14AC-R

Model: PR-14DC-DA-R

Specifications

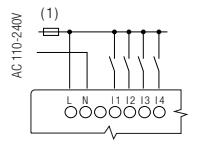
	PR-14AC-R	PR-14DC-DA-R
Nominal voltage	AC 110V-240V	DC 12-24V
Operating limits	AC 85 - 265V	DC 10.8-28.8V
The main frequency range	47-63Hz	-
Immunity from micro power	-	Typ 5 ms
Power	Max startup current	Max 0.25A
Isolation voltage	1780V AC	-
Max absorbed power	49 mA (85V AC) 37 mA (265V AC)	3.5 W (10.8V DC) 4W (28.8V DC)
Protection against polarity inversions	Yes	
Inputs used as digital	Input No	10 (I1-I4)
	Digital input	10 (I1-I4)
	Analogue input	-
	Input voltage	AC 110-240V
	Input signal 0	AC 0-40V <0.03mA
	Input signal 1	AC 79-240V >0.06mA
Inputs used as analog	Input current	(I1-I6) 0.4mA / (I7-I8) 2.3mA @ 10.8V DC (I1-I6) 0.5mA / (I7-I8) 2.6mA @ 12.0 V DC (I1-I6) 1.2mA / (I7-I8) 5.2mA @ 24 V DC (I1-I6) 1.5mA / (I7-I8) 6.3mA @ 28.8 V DC
	Response time	0 to 1: 120V AC :Typ. 50 ms 240V AC :Typ. 30 ms 1 to 0: 120V AC :Typ. 90 ms 240V AC :Typ.100 ms
	Maximum counting frequency	Typ: 4 Hz
	Sensor type	Contact or 3-wire PNP
	Input type	-
	Isolation between power supply and inputs	-
	Isolation between inputs	-
	Protection against polarity inversions	Yes
Inputs used as analog	Measurement range	-
	Input impedance	DC 0-10V
	Input voltage	Min 24KΩ Max 72KΩ
	Resolution	28.8 V DC max
	Accuracy at 25 °C	10bit 0.01V
	Accuracy at 55 °C	± (Max 0.02)V
	Isolation between analog inputs and power supply	± (Max 0.04)V
	Cable length	-
		10 m max shielded & twisted

	PR-14
General data	Memory: 512 Functional Blocks / 5K Steps Data Retentivity: 10 years Program Backup: 10 years RTC: Backup at 25 °C: 20 days, RTC accuracy : MAX ±2S/day Cycle time: 0.6ms - 8.0ms Expansion: 16 modules (PR-E-16) Communication: 1 RS232 port & 2 RS485 port (1 built-in) Modbus RTU/ASCII Master or Slave Certificate:
Item	PR-14
Memory	512 Functional Blocks / 5K Steps
Data Retentivity	10 years
Program Backup	10 years
RTC	Backup at 25 °C: 20 days, RTC accuracy : MAX ±2S/day
Cycle time	0.6ms - 8.0ms
Expansion	16 modules (PR-E-16)
Communication	1 RS232 port & 2 RS485 port (1 built-in) Modbus RTU/ASCII Master or Slave
Certificate	
Operation Temp	-20 °C .. +55 °C
Storage Temp	-40 °C .. +70 °C
Protection	IP20
Dimensions	95*90*55 (Unit, mm) 6DIN
Installation	35mm-DIN rail or screw for installation
Weight	Approx. 400g

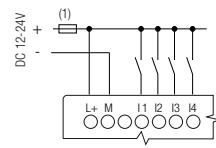
	PR-14AC-R	PR-14DC-DA-R
Outputs	Output No: 4 (Q1-Q4) Output type: Relay output Continuous current: Resistive load 10A/Inductive load 2A Max breaking voltage: AC 250 V DC 110 V Max allowable power force: 1250VA 300W Electrical durability expectancy: 105 Operations at Rated Resistive Load Mechanical life: 107 Operations at No Load condition Built-in protections: Against short-circuits: None Against overvoltages and overloads: None Response time: Operate Time : 15 ms max Release Time : 10 ms max Mechanism: 10Hz	
Switch frequency	Resistor/light load: 2Hz Sensitive load: 0.5Hz	

I/O circuit diagrams

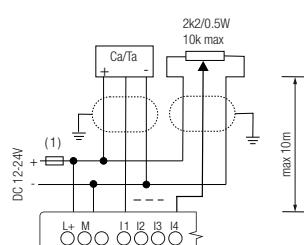
[Digital Input - Power AC]



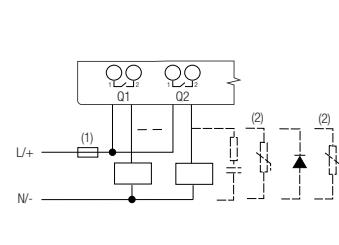
[Digital Input - Power DC]



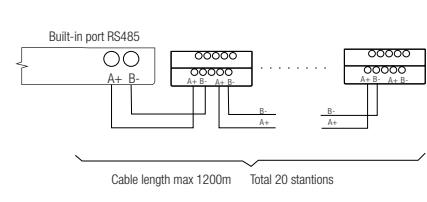
[DC analog inputs 0-10V - Power DC]



[Relay Outputs]



[RS485 Connection]



(1) - Fuse, circuit-breaker or circuit protector
(2) - Inductive load;