

◆ **Technical Data:**

**Model:PR-12AC-R-E**

**GENERAL SPECIFICATIONS**

Timers : 64

Counters : 64

Function Blocks: 64

Operation temp. : -20°C-55°C

Storage: -40°C-70°C

Protection: IP20

RTC accuracy : MAX ±2S/day

RTC Backup at 25 °C : 20 days

Program and settings Backup :10 years

Data Power-off retentivity : No

Cycle time: typ. 0.6ms → 8.0ms

Dimensions: 72\*90\*58 (Unit, mm)

Certificate: CE,ROHS

Installation: 35mm-DIN rail or screw for installation

Expansion capacity: No

Password protection : 4-digit number password protection or disable program upload function

Communication interface : TTL interface , 1 Program/RS232 port

Communication protocol : Modbus RTU/ASCII , only can serve as slaves

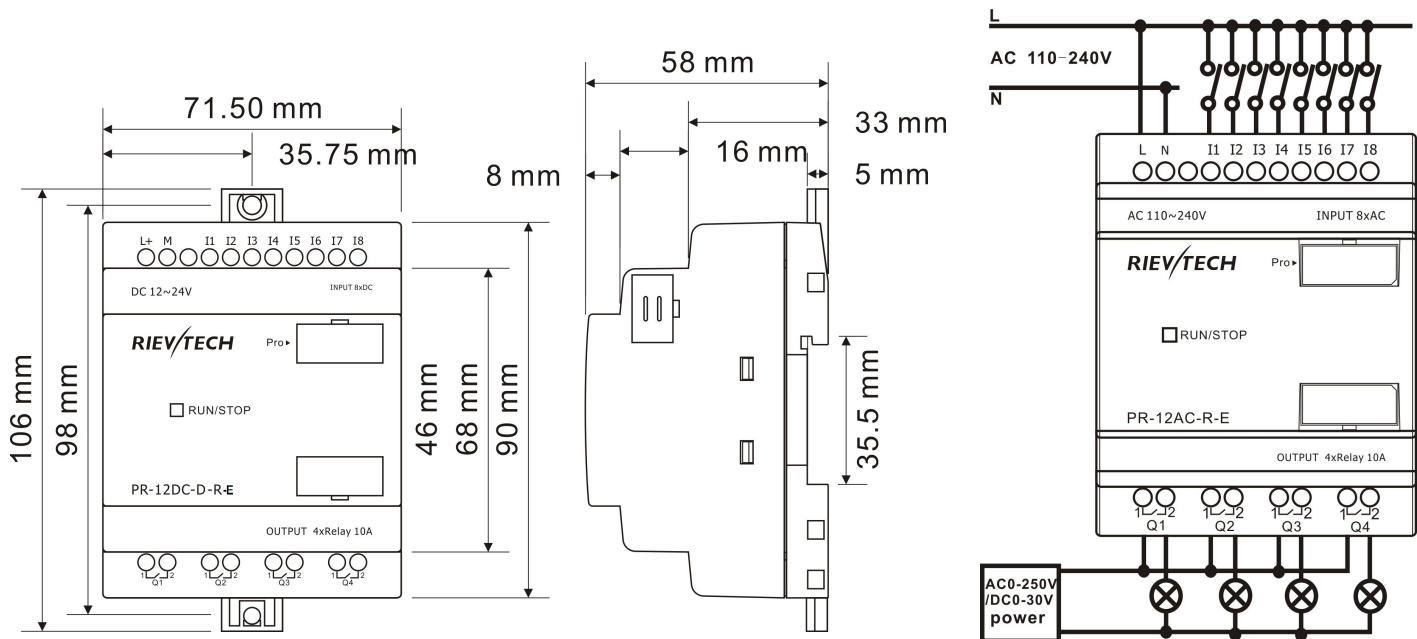


**Technical Index**

<b>Power supply:</b>	
Nominal voltage	AC110V-240V
Operating limits	AC85 - 265 V
The main frequency range	47-63Hz
Max. absorbed power	38mA (85V AC); 30mA (265V AC)
Isolation voltage	1780V AC
Protection against polarity inversions	Yes
<b>Input parameters:</b>	
Input No	8 ( I1-I8 )
Digital input	8 ( I1-I8 )
Analogue input	None
Input voltage	AC110-240V
Input signal0	AC0-40V; <0.03mA
Input signal1	AC79-240V; >0.06mA
Input Response Time	Delay time at 0 to 1: 120V AC : Typ. 50 ms 240V AC : Typ. 30 ms Delay time at 1 to 0: 120V AC : Typ. 90 ms 240V AC : Typ.100 ms

Maximum counting frequency	Typ. 4Hz
Sensor type	Contact or 3-wire PNP
Isolation between power supply and inputs	None
Isolation between inputs	None
Protection against polarity inversions	Yes
<b>Output parameters:</b>	
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	10 <sup>5</sup> Operations at Rated Resistive Load
Mechanical life	10 <sup>7</sup> Operations at No Load condition
Response time	Operate Time : 15 mSec. Max. Release Time : 10 mSec. Max.
Built-in protections	Against short-circuits: None Against overvoltages and overloads: None
<b>Switch frequency:</b>	
Mechanism	10Hz
Resistor/light load	2Hz
Sensitive load	0.5Hz
<b>Other parameters:</b>	
Weight	Approx.300g

## Installation Dimensions & Wiring Diagram



SYSTEM									
Operating System requirements		Windows /2000/XP/WIN7/WIN8							
Programming languages		Function block							
Program Memory		64							
Execution Speed		<0.1ms per function							
LCD Display		No							
Functions		Up to 70 function blocks							
BASIC									
Timers									
Maximum Number	64	a.On-delay; b.Off-delay etc. Up to 12 kind Timers							
Timing Ranges	10ms--99 h59m								
Counters									
Maximum Number	64			a.Up/down Counter b.Hours Counter c.Frequency Threshold Trigger					
Highest Count	99999999								
Resolution	1								
RTC									
Number available	64	a.Weekly Timer b.Yearly Timer							
Resolution	1 min								
Time span available	Week/year-month-day-hour-min								
Flags									
Digital flags	32	a.Digital Flag b.Analog Flag							
Analog flags	32								
PI Functions									
Number available	Not available	a.PI Controller							
Parameter Ranges	----								
Analog Math									
Number available	Not available	a.Analog Math b.Analog Math Error detection							
Function	---								
Analog Ramp Function									
Number available	Not available	a. Analog Ramp							
Compare Function									
Number available	64					a.Analog compactor b.Comparison of 2 values			
Special Functions									
HMI Screens									
Number available	Not available	a.Message texts							
Display/Edit	----								
PWM Functions									
Number available	Not available	a.PWM							
Communication Functions									
Number available	Not available(it only can work as slave)					a.Modbus write b.Modbus read			
Analog threshold trigger	Analog amplifier	RS latch relay							
Analog differential trigger	Data Latching relay							Pulse Relay	Shift register
AND	NAND			OR	XOR				