

◆ Technical Data:

Model:PR-12AC-R

GENERAL SPECIFICATIONS

Timers : 512
 Counters : 512
 Function Blocks: 512
 Operation temp.: -20°C-55°C
 Storage : -40°C-70°C
 Protection : IP20(Non-waterproof)
 RTC accuracy: MAX ±2S/day
 RTC Backup at 25 °C: 20 days
 Program and settings Backup:10 years
 Data Power-off retentivity: 10 years
 Dimensions : 72*90*61 (Unit, mm)
 Certificate : CE
 Installation : 35mm-DIN rail or screw for installation
 Modify parameters via keypad LCD: yes
 Modbus RTU/ASCII:yes(Master or slave with RS232/RS485)
 Expansion: No

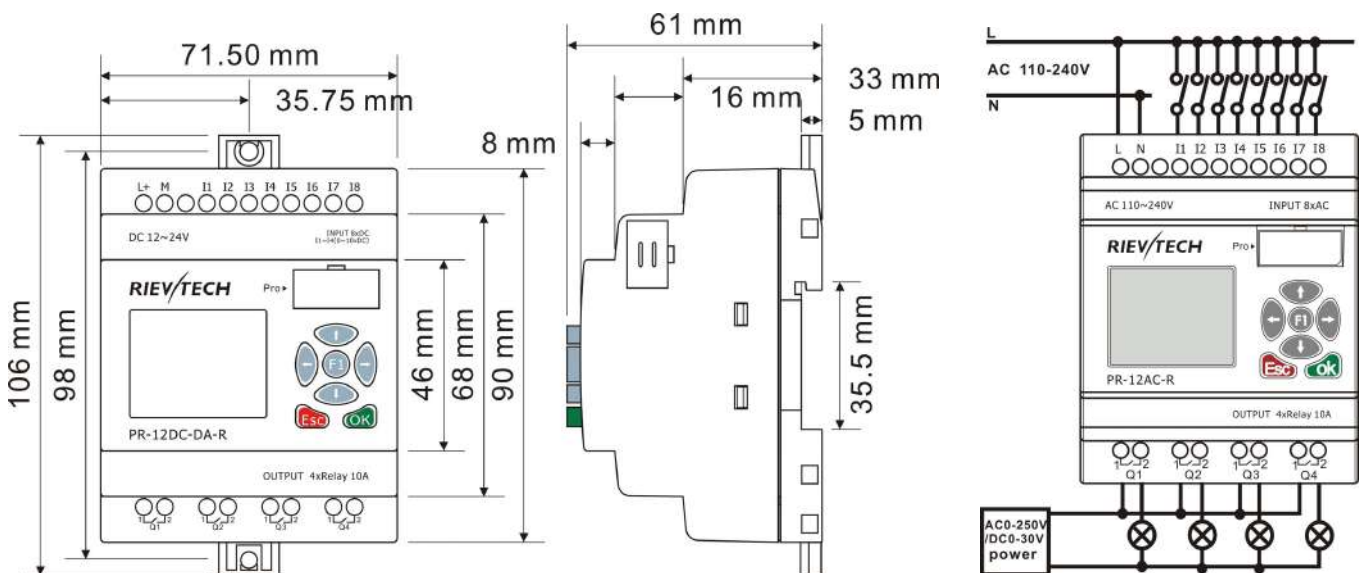


Technical Index

Power supply:	
Nominal voltage	AC110V-240V
Operating limits	AC85 - 265 V
The main frequency range	47-63Hz
Max. absorbed power	48.5mA (85V ac) ; 35mA (265V ac)
Isolation voltage	1780V AC
Protection against polarity inversions	Yes
Input parameters:	
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	None

inputs	
Isolation between inputs	None
Protection against polarity inversions	Yes
Output parameters:	
Output No.	4 (Q1-Q4)
Output type	Relay output
Max. Allowable Power Force(Resistive)	CE: 10A,250V AC/DC30V
Electrical durability Expectancy	10 ⁵ Operations at Rated Resistive Load
Mechanical life	10 ⁷ 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
Switch frequency:	
Mechanism	10Hz
Resistor/light load	2Hz
Sensitive load	0.5Hz
Other parameters:	
Weight	Approx.300g

Installation Dimensions & Wiring Diagram



SYSTEM					
SYSTEM		Operating System requirements		Windows /2000/XP/WIN7/WIN8	
SYSTEM		Programming languages		Function block	
SYSTEM		Program Memory		512	
SYSTEM		Execution Speed		<0.1ms per function	
SYSTEM		LCD Display		4 lines x 16 characters	
SYSTEM		Functions		Up to 70 function blocks	
BASIC		Timers		<ul style="list-style-type: none"> a.On-delay; b.Off-delay etc. Up to 12 kind Timers	
BASIC		Maximum Number	512		
BASIC		Timing Ranges	10ms--99 h59m		
BASIC		Counters		<ul style="list-style-type: none"> a.Up/down Counter b.Hours Counter c.Frequency Threshold Trigger 	
BASIC		Maximum Number	512		
BASIC		Highest Count	99999999		
BASIC		Resolution	1		
BASIC		RTC		<ul style="list-style-type: none"> a.Weekly Timer b.Yearly Timer 	
BASIC		Number available	512		
BASIC		Resolution	1 min		
BASIC		Time span available	Week/year-month-day-hour-min		
BASIC		Flags		<ul style="list-style-type: none"> a.Digital Flag b.Analog Flag 	
BASIC		Digital flags	256		
BASIC		Analog flags	256		
BASIC		PI Functions		a.PI Controller	
BASIC		Number available	30		
BASIC		Parameter Ranges	1-32767		
BASIC		Analog Math		<ul style="list-style-type: none"> a.Analog Math b.Analog Math Error detection 	
BASIC		Number available	512		
BASIC		Function	ADD, Subtract,Multiply, Divide		
BASIC		Analog Ramp Function		a. Analog Ramp	
BASIC		Number available	55		
BASIC		Compare Function		<ul style="list-style-type: none"> a.Analog compactor b.Comparison of 2 values 	
BASIC		Number available	512		
Special Functions		HMI Screens		a.Message texts	
Special Functions		Number available	64		
Special Functions		Display/Edit	Preset Current value and Free text		
Special Functions		PWM Functions		a.PWM	
Special Functions		Number available	512, (2 fast output for Transistor)		
Special Functions		Communication Functions		<ul style="list-style-type: none"> a.Modbus write b.Modbus read 	
Special Functions		Number available	512(Only CPU works as Master need these 2 blocks, slave does not need)		
Special Functions		Word/bit data Conversion	Square Boot	Sin/Cos	RS latch relay
Special Functions		Data-logger Function	Analog watchdog	Analog filter	Average value
Special Functions		Pumps Management	Defrost function	Multiplexer	Pulse Relay
Special Functions		Cam Control	Astronomical clock	Stop watch	Boolean function
Note: 1.Not all program functions are listed in this table i.e. AND,NAND,OR,NOT,NOR,XOR,SHIFT REGISTER,DATA LATCHING RELAY, COMPORT STATUS etc.					