

Model:PR-12AC-R-HMI

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

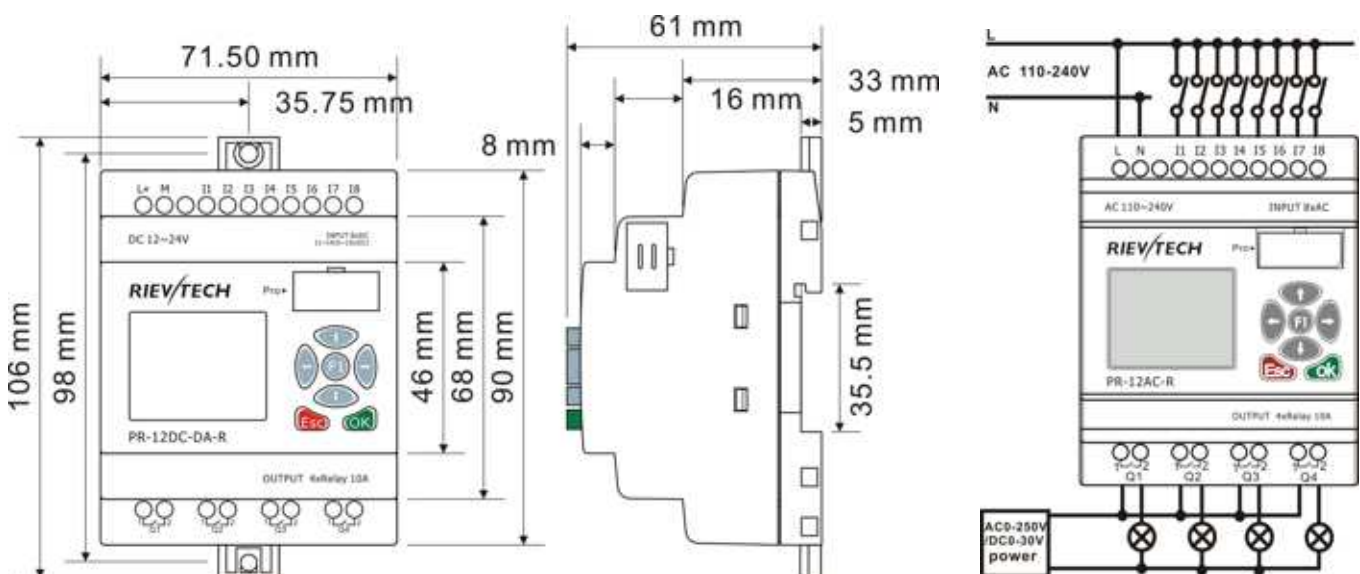


Technical Index

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
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 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			
BASIC		Maximum Number	512		
BASIC		Timing Ranges	10ms--99 h59m		
BASIC		Counters			
BASIC		Maximum Number	512		
BASIC		Highest Count	99999999		
BASIC		Resolution	1		
BASIC		RTC			
BASIC		Number available	512		
BASIC		Resolution	1 min		
BASIC		Time span available	Week/year-month-day-hour-min		
BASIC		Flags			
BASIC		Digital flags	256		
BASIC		Analog flags	256		
BASIC		PI Functions			
BASIC		Number available	30		
BASIC		Parameter Ranges	1-32767		
BASIC		Analog Math			
BASIC		Number available	512		
BASIC		Function	ADD, Subtract,Multiply, Divide		
BASIC		Analog Ramp Function			
BASIC		Number available	55		
BASIC		Compare Function			
BASIC		Number available	512		
BASIC		HMI Screens			
BASIC		Number available	64		
BASIC		Display/Edit	Preset Current value and Free text		
BASIC		PWM Functions			
BASIC		Number available	512, (2 fast output for Transistor)		
BASIC		Communication Functions			
BASIC		Number available	512(Only CPU works as Master need these 2 blocks, slave does not need)		
BASIC		Word/bit data Conversion	Square Boot	Sin/Cos	
BASIC		Data-logger Function	Analog watchdog	Analog filter	
BASIC		Pumps Management	Defrost function	Multiplexer	
BASIC		Cam Control	Astronomical clock	Stop watch	
BASIC					RS latch relay
BASIC					Average value
BASIC					Pulse Relay
BASIC					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.					