◆ Technical Data:

Model:PR-12DC-DA-R

GENERAL SPECIFICATIONS

Timers : 512

Counters : 512

Function Blocks: 512

Operation temp.: -20℃-55℃

Storage :-40℃-70℃

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)

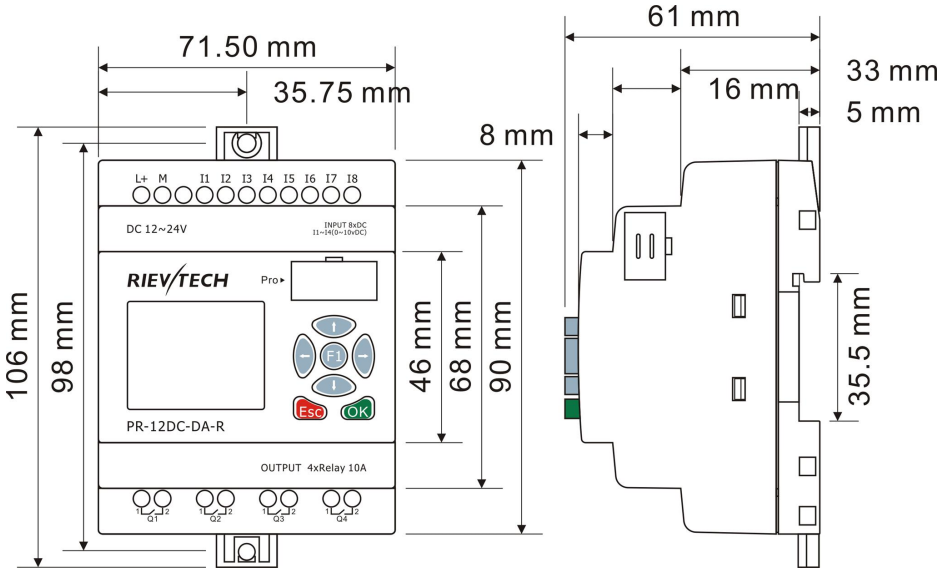
Expansion: No

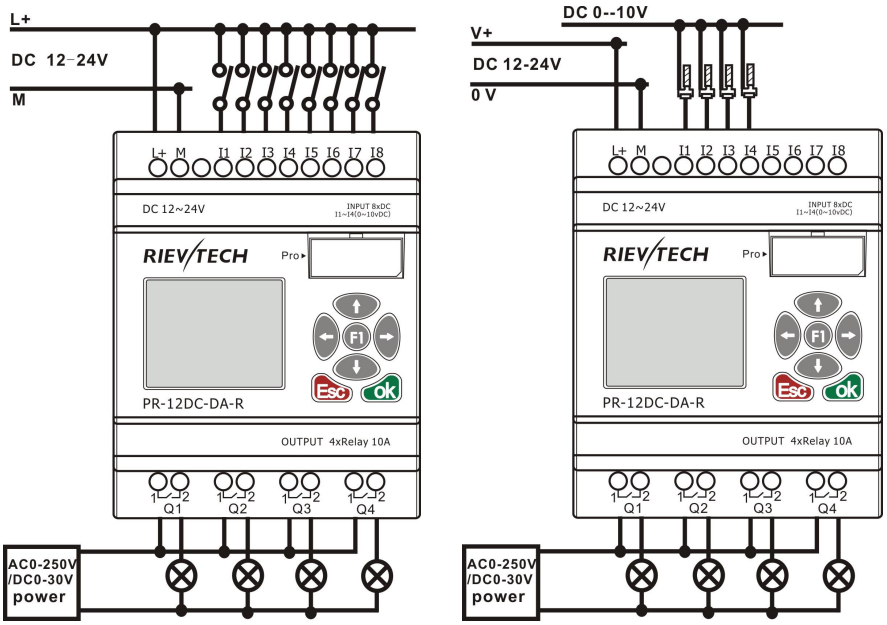
Technical Index

Power supply:	
Nominal voltage	DC 12-24V
Operating limits	DC 10.8-28.8V
Immunity from micro power cuts	Typ.5 ms
Max. Startup current	Max. 0.25A
Max. absorbed power	3.5 W (10.8V dc) ; 4 W (28.8V dc)
Protection against polarity inversions	Yes
Input parameters:	
Input No	8 (I1-I8)
Digital input	8 (I1-I8)
Analogue input	4 (I1-I4)(0..10V DC)
Digital inputs(I5-I8)	
Input voltage	DC0-28.8V
Input signal0	< 5V DC; <1mA
Input signal1	> 8 V DC;>1.7mA
Input current	2.3mA @ 10.8V dc 2.6mA @ 12.0 V dc 5.2 mA @ 24 V dc 6.3 mA @ 28.8 V dc
Response time	0 to 1 ： <1 ms ； 1 to 0 ： <1 ms
Maximum counting frequency	60k Hz(I5--I8)
Sensor type	Contact or 3-wire PNP

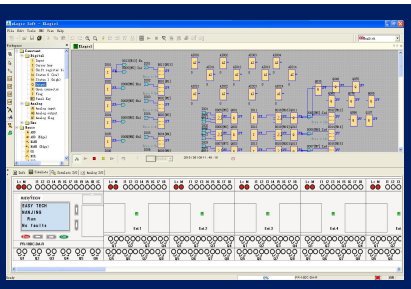
Input type	Resistive
Isolation between power supply and inputs	None
Isolation between inputs	None
Inputs used as digital inputs(I1-I4)	
Input voltage	DC0-28.8V
Input signal0	< 5V DC;<0.1mA
Input signal1	> 8 V DC;>0.3mA
Input current	0.4mA @ 10.8V dc 0.5mA @ 12.0 V dc 1.2mA @ 24 V dc 1.5mA @ 28.8 V dc
Response time	0 to 1 ： Typ. 1.5 ms ； 1 to 0 ： Typ. 1.5 ms
Maximum counting frequency	Typ.： 4 HZ
Sensor type	Contact or 3-wire PNP
Input type	Resistive
Isolation between power supply and inputs	None
Isolation between inputs	None
Inputs used as analog inputs(I1-I4)	
Measurement range	DC 0---10V
Input impedance	Min, 24KΩ ; Max. 72KΩ
Input voltage	28.8 V DC max
Resolution	10bit ,0.01V
Accuracy at 25 °C	± (Max.0.02)V
Accuracy at 55 °C	± (Max.0.04)V
Isolation between analog channel and power supply	None
Cable length	10 m max. shielded and twisted
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





Program(xlogicsoft) Specification

SYSTEM	Operating System requirements	Windows /2000/XP/WIN7/WIN8			
	Programming languages	Function block			
	Program Memory	512			
	Execution Speed	<0.1ms per function			
	LCD Display	4 lines x 16 characters			
	Functions	Up to 70 function blocks			
BASIC	Timers				a.On-delay; b.Off-delay etc. Up to 12 kind Timers
	Maximum Number	512			
	Timing Ranges	10ms--99 h59m			
	Counters				a.Up/down Counter b.Hours Counter c.Frequency Threshold Trigger
	Maximum Number	512			
	Highest Count	99999999			
	Resolution	1			
	RTC				a.Weekly Timer b.Yearly Timer
	Number available	512			
	Resolution	1 min			
	Time span available	Week/year-month-day-hour-min			
	Flags				a.Digital Flag b.Analog Flag
	Digital flags	256			
	Analog flags	256			
	PI Functions				a.PI Controller
	Number available	30			
	Parameter Ranges	1-32767			
	Analog Math				a.Analog Math b.Analog Math Error detection
	Number available	512			
	Function	ADD, Subtract,Multiply, Divide			
	Analog Ramp Function				a. Analog Ramp
	Number available	55			
	Compare Function				a.Analog compactor
	Number available	512			b.Comparison of 2 values
Special Functions	HMI Screens				a.Message texts
	Number available	64			
	Display/Edit	Preset Current value and Free text			
	PWM Functions				a.PWM
	Number available	512, (2 fast output for Transistor)			
	Communication Functions				a.Modbus write b.Modbus read
	Number available	512(Only CPU works as Master need these 2 blocks, slave does not need)			
	Word/bit data Conversion	Square Boot	Sin/Cos	RS latch relay	
	Data-logger Function	Analog watchdog	Analog filter	Average value	
	Pumps Management	Defrost function	Multiplexer	Pulse Relay	
	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.