◆ Technical Data:

Model:PR-12DC-DA-R-E

GENERAL SPECIFICATIONS

Timers：64

Counters：64

Function Blocks: 64

Operation temp. ：-20℃-55℃

Storage:-40℃-70℃

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

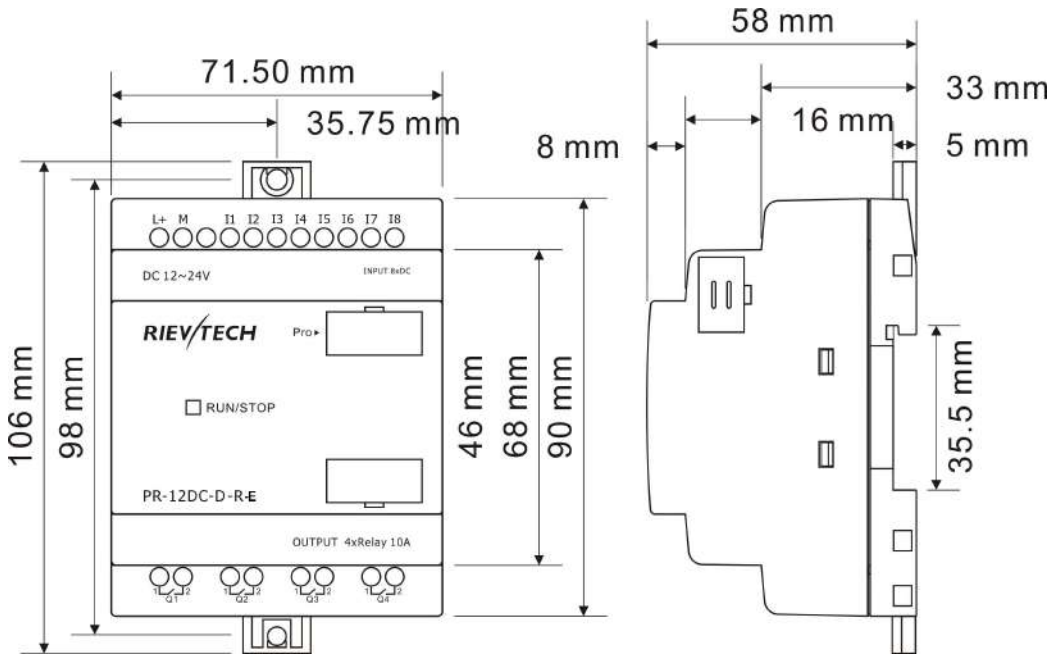
Communication protocol：Modbus RTU/ASCII , only can serve as slaves

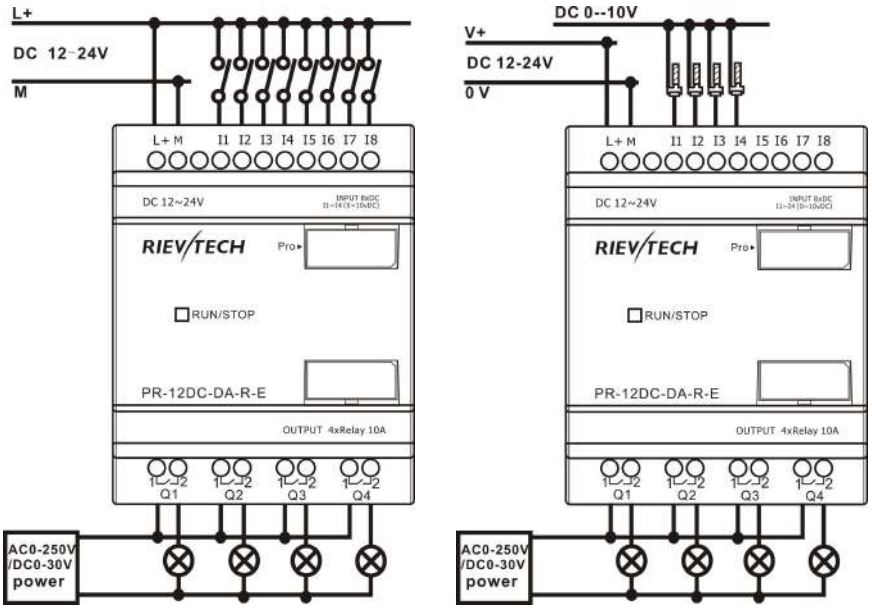
Technical Index

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	3.2 W (10.8V dc) ; 3.8 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	Typ.： 4 HZ

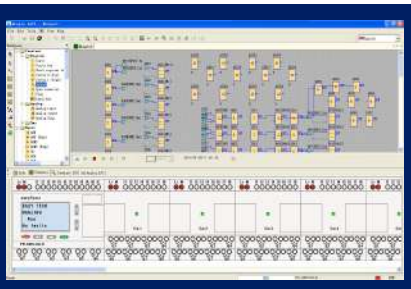
Sensor type	Contact or 3-wire PNP
Input type	Resistive
Isolation between power supply and inputs	None
Isolation between inputs	None
Inputs used as digital inputs(I1-I4)	
Input voltage	DC0-28.8V
Input signal0	< 5V DC;<0.1mA
Input signal1	> 8 V DC;>0.3mA
Input current	0.4mA @ 10.8V dc 0.5mA @ 12.0 V dc 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	9bit ,0.015V
Accuracy at 25 °C	± (Max.0.03)V
Accuracy at 55 °C	± (Max.0.06)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
Max. Allowable Power Force(Resistive)	CE: 10A,250V AC/DC30V UL/CUL: 10A,250V AC; 5A,DC28V
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


71.50 mm
35.75 mm
8 mm
58 mm
33 mm
16 mm
5 mm
106 mm
98 mm
46 mm
68 mm
90 mm
35.5 mm
L+ M I1 I2 I3 I4 I5 I6 I7 I8
DC 12~24V
INPUT 8xDC
RIEV/TECH
Pro
RUN/STOP
PR-12DC-D-R-E
OUTPUT 4xRelay 10A
Q1
Q2
Q3
Q4


L+
DC 12-24V
M
DC 0--10V
V+
DC 12-24V
0 V
L+ M I1 I2 I3 I4 I5 I6 I7 I8
DC 12~24V
RIEV/TECH
Pro
RUN/STOP
PR-12DC-DA-R-E
OUTPUT 4xRelay 10A
Q1
Q2
Q3
Q4
AC0-250V
/DC0-30V
power

Program(xlogicsoft) Specification

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				a.On-delay;
	Maximum Number	64			b.Off-delay etc.
	Timing Ranges	10ms--99 h59m			Up to 12 kind Timers
	Counters				a.Up/down Counter
	Maximum Number	64			b.Hours Counter
	Highest Count	99999999			c.Frequency Threshold Trigger
	Resolution	1			
	RTC				a.Weekly Timer
	Number available	64			b.Yearly Timer
	Resolution	1 min			
	Time span available	Week/year-month-day-hour-min			
	Flags				a.Digital Flag
	Digital flags	32			b.Analog Flag
	Analog flags	32			
	PI Functions				a.PI Controller
	Number available	Not available			
	Parameter Ranges	----			
	Analog Math				a.Analog Math
	Number available	Not available			b.Analog Math Error detection
	Function	---			
	Analog Ramp Function				a. Analog Ramp
	Number available	Not available			
	Compare Function				a.Analog compactor
	Number available	64			b.Comparison of 2 values
Special Functions	HMI Screens				a.Message texts
	Number available	Not available			
	Display/Edit	----			
	PWM Functions				a.PWM
	Number available	Not available			
	Communication Functions				a.Modbus write
	Number available	Not available(it only can work as slave)			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	