

◆ Technical Data:

Model: SR-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

Supported programming language: FBD & Ladder

Expansion capacity: 3 modules (SR-E)

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

Communication interface: 1 RS485 port(COM1 external -- SR-RS485), 1Ethernet port(10M)

Communication protocol: Modbus RTU, Modbus TCP

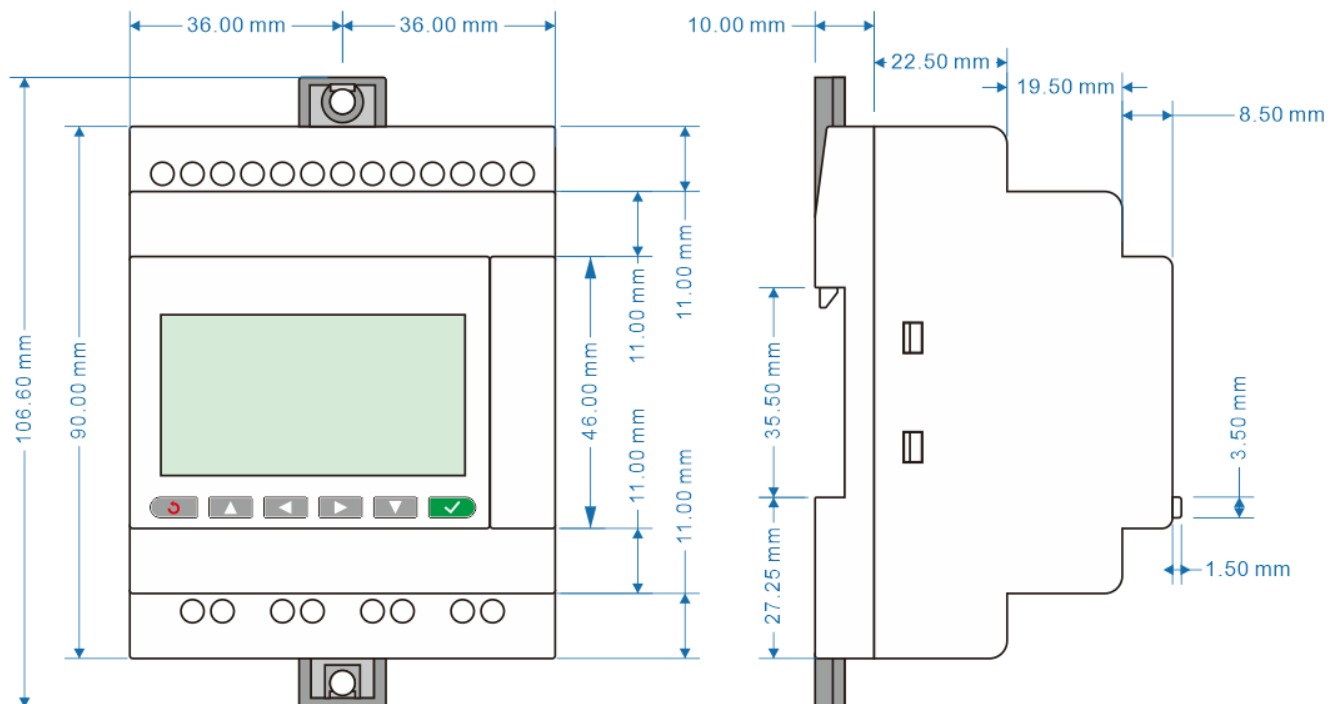


Technical Index

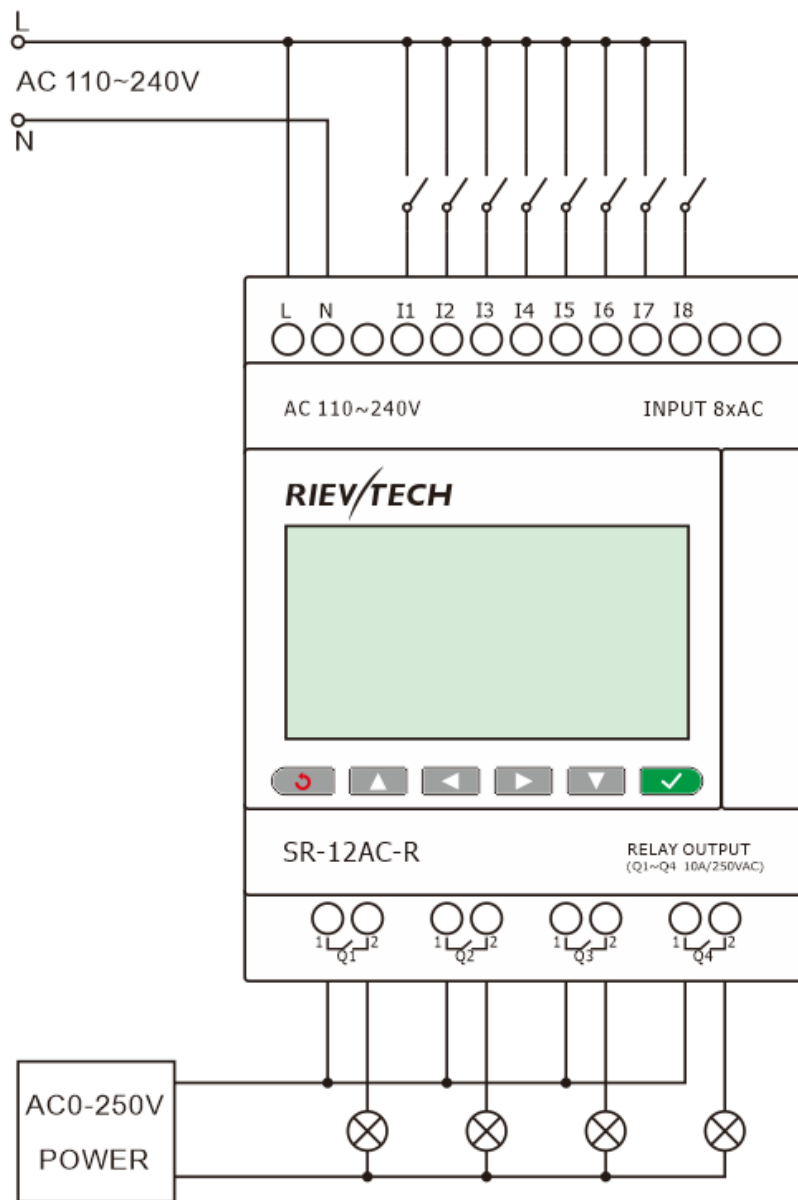
Power supply:	
Nominal voltage	AC110V-240V
Operating limits	AC85 - 265 V
The main frequency range	47-63Hz
Max. absorbed power	60mA (85V ac); 50mA (265V ac)
Surge Immunity	1780V AC
Protection against polarity inversions	Yes
Input parameters:	
Input No	8 (I1-I8)
Digital input	8 (I1-I8)
Analogue input	None
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. 30 ms 240V AC: Typ. 20 ms Delay time at 1 to 0: 120V AC: Typ. 130 ms 240V AC: Typ. 120 ms

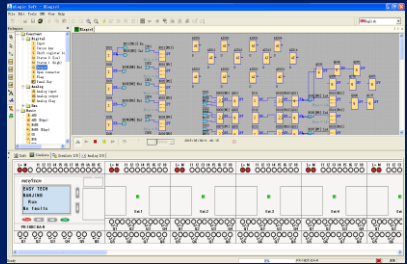
Maximum counting frequency	Typ. 2Hz
Sensor type	Contact or 3-wire PNP
Isolation between power supply and inputs	None
Isolation between inputs	None
Protection against polarity inversions	Yes
Output parameters:	
Output No.	4 (Q1-Q4)
Output type	Relay output
Safety certified load (resistive)	10A,250V AC
Min switching load	6V 1A
Electrical endurance (360ops/h)	10 ⁵ (at room temperature)
Mechanical endurance 10,800ops/h	10 ⁷ (at room temperature)
Response time	Operate Time: 15 mSec. Max. Release Time: 10 mSec. Max.
Built-in protections	Against short-circuits: None Against over-voltages and overloads: None
Switch frequency:	
Mechanism	10Hz
Resistor/light load	2Hz
Sensitive load	0.5Hz
Other parameters:	
Weight	210.7g / 247.2g(packaging)

Installation Dimensions & Wiring Diagram



Digital Input / Output



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	128			
	Analog flags	128			
	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	16			
	Display/Edit	Preset Current value and Free text			
	Communication Functions				a.Modbus read write
	Number available	512 (Only CPU works as Master need this block, slave does not need)			
	Word/bit data Conversion	Analog watchdog	Analog filter	RS latch relay	
	Boolean function	Stop watch	Pulse Relay	Average value	
	Astronomical clock				
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.					

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.