

◆ Technical Data:

Model: SR-12AC-R

GENERAL SPECIFICATIONS

Timers : 256

Counters: 256

Function Blocks: 256

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)
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. 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 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 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

SYSTEM	Operating System requirements		Windows /2000/XP/WIN7/WIN8	
	Programming languages		Function block	
BASIC	Program Memory		256	
	Execution Speed		<0.1ms per function	
BASIC	LCD Display		4 lines x 16 characters	
	Functions		Up to 70 function blocks	
BASIC	Timers			
	Maximum Number	256		
BASIC	Timing Ranges	10ms--99 h59m		
	Counters			
BASIC	Maximum Number	256		
	Highest Count	99999999		
BASIC	Resolution	1		
	RTC			
BASIC	Number available	256		
	Resolution	1 min		
BASIC	Time span available	Week/year-month-day-hour-min		
	Flags			
BASIC	Digital flags	128		
	Analog flags	128		
BASIC	PI Functions			
	Number available	30		
BASIC	Parameter Ranges	1-32767		
	Analog Math			
BASIC	Number available	256		
	Function	ADD, Subtract,Multiply, Divide		
BASIC	Analog Ramp Function			
	Number available	55		
BASIC	Compare Function			
	Number available	256		
Special Functions	HMI Screens			
	Number available	16		
Special Functions	Display/Edit	Preset Current value and Free text		
	Communication Functions			
Special Functions	Number available	256 (Only CPU works as Master need this block, slave does not need)		
	Word/bit data Conversion	Analog watchdog	Analog filter	
Special Functions	Boolean function	Stop watch	Pulse Relay	
	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.