

◆ Technical Data:

Model:SR-22DC-DA-R-B

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 : 133*90*60 (Unit, mm)

Certificate : CE

Installation : 35mm-DIN rail or screw for installation

Modify parameters via keypad LCD: No

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: 2 RS485 port (COM1 external - SR-RS485, COM2 built-in), 1Ethernet port(10M)

Communication protocol: Modbus RTU, Modbus TCP



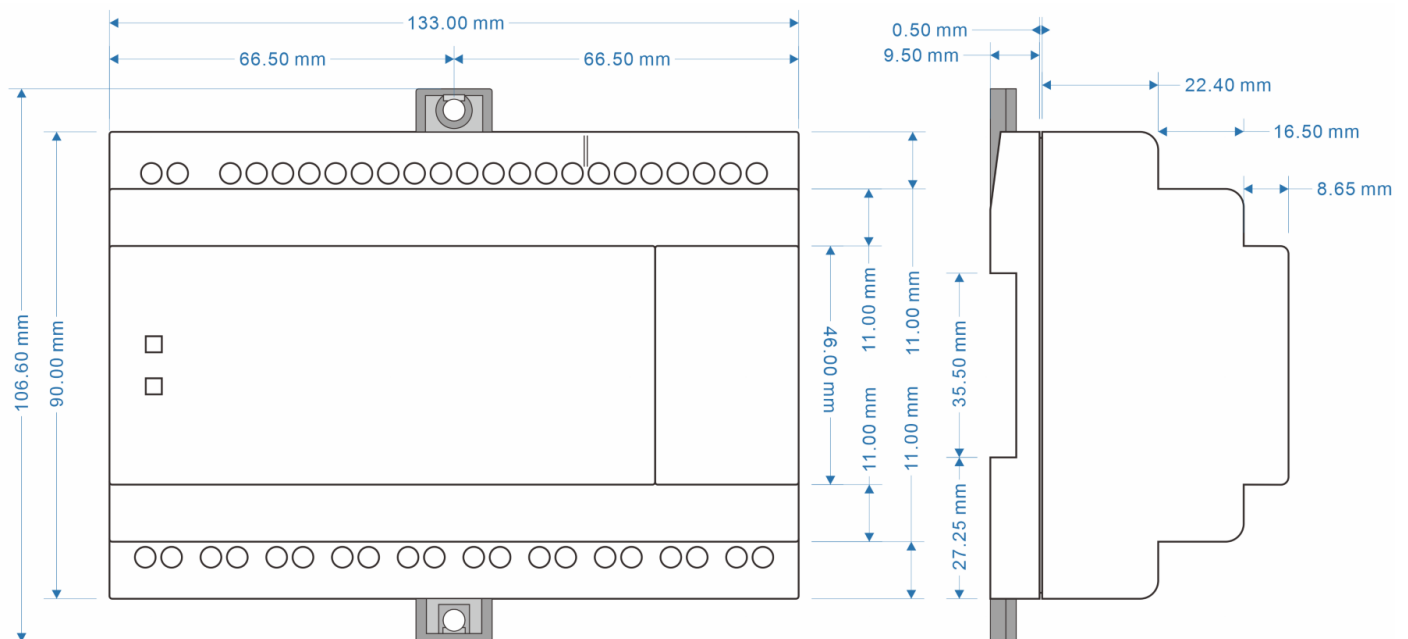
Technical Index

Power supply:	
Nominal voltage	DC12-24V /AC24V
Operating limits	DC10.8-28.8V AC24V
Immunity from micro power cuts	Typ.5 ms
Max. Startup current	Max. 0.4A
Max. absorbed power	0.32A (10.8V dc); 0.12A (28.8V dc) 0.28A (24V ac)
Protection against polarity inversions	Yes
Input parameters:	
Input No	14 (I1-IE)
Digital input	14 (I1-IE)
Analogue input	6 (I1-I6) (0...10V DC)
Digital inputs (I7-IE)	
Input voltage	DC 0-28.8V AC 0-24V
Input signal0	< 5V DC; <1 mA < 3V AC

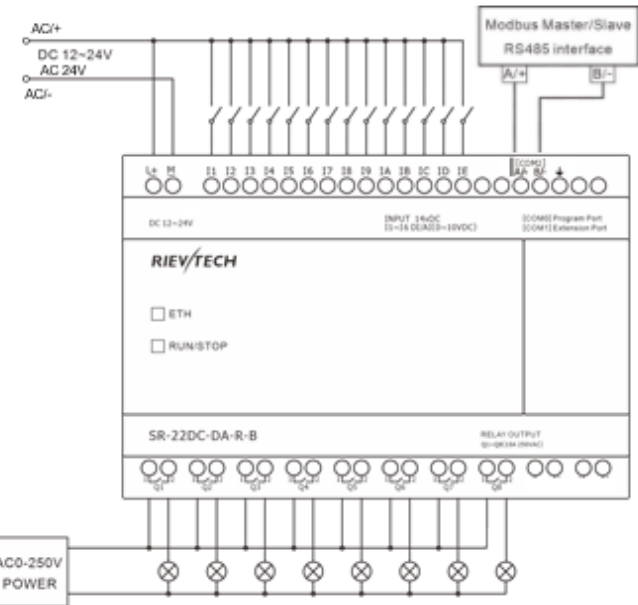
Input signal1	> 8V DC; >1.7 mA > 6V AC
Input current	2.1mA @ 10.8V dc 2.3mA @ 12.0 V dc 4.6 mA @ 24 V dc 5.5 mA @ 28.8 V dc 4.76 mA @ 24 V ac
Response time	DC12-24V 0 to 1: Typ. 3ms; 1 to 0: Typ. 3ms AC24V 0 to 1: Typ. 72ms; 1 to 0: Typ. 72ms
Sensor type	Contact or 3-wire PNP
Input type	Resistive
Isolation between power supply and inputs	None
Isolation between inputs	None
Inputs used as digital inputs (I1-I6)	
Input voltage	DC 0-28.8V AC 0-24V
Input signal0	< 5V DC; <0.09 mA < 3V AC
Input signal1	> 8V DC; >0.15mA > 5V AC
Input current	0.16mA @ 10.8V dc 0.18mA @ 12.0 V dc 0.49mA @ 24 V dc 0.62mA @ 28.8 V dc 0.58 mA @ 24 V ac
Response time	DC12-24V 0 to 1: Typ. 5 ms; 1 to 0: Typ. 5 ms AC24V 0 to 1: Typ. 40ms 1 to 0: Typ. 40ms
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-I6)	
Measurement range	DC 0---10V
Input impedance	Min, 24K Ω ; Max. 72K Ω
Input voltage	28.8 V DC max
Resolution	10bit ,0.01V
Accuracy at 25 °C	± (Max.0.2)V
Isolation between analog channel and power supply	None

Cable length	10 m max. shielded and twisted
Output parameters:	
Output No.	8 (Q1-Q8)
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	250g

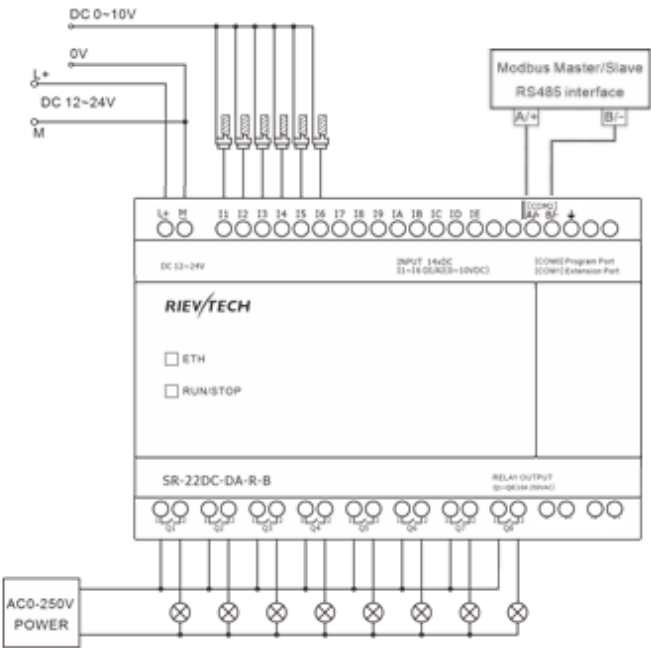
Installation Dimensions & Wiring Diagram

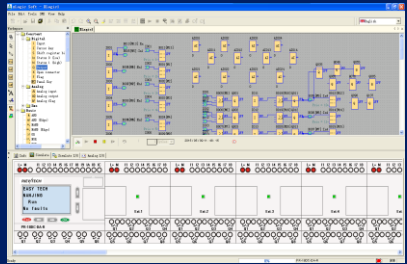


Digital Input / Output



0~10V Analog Input



SYSTEM	Operating System requirements		Windows /2000/XP/WIN7/WIN8			
	Programming languages		Function block			
	Program Memory		256			
	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	256				
	Timing Ranges	10ms--99 h59m				
	Counters					a.Up/down Counter b.Hours Counter c.Frequency Threshold Trigger
	Maximum Number	256				
	Highest Count	99999999				
	Resolution	1				
	RTC					a.Weekly Timer b.Yearly Timer
	Number available	256				
	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	256				
	Function	ADD, Subtract,Multiply, Divide				
	Analog Ramp Function					a. Analog Ramp
	Number available	55				
	Compare Function					a.Analog compactor b.Comparison of 2 values
	Number available	256				
	Special Functions	HMI Screens				
Number available		0				
Display/Edit		Preset Current value and Free text				
Communication Functions					Modbus read write	
Number available		256(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.						