Ammeter with Contact Output

Configuration Via Computer

SC991A

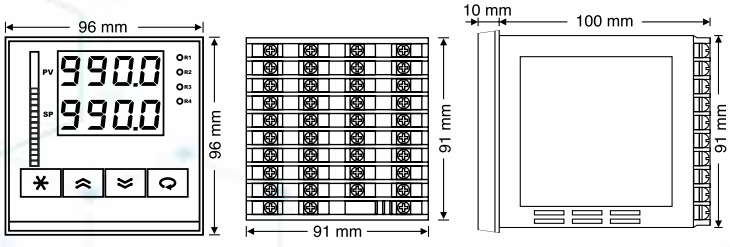
SC991A devices are 96 x 96 mm in size. Designed for 0-1A or 0-5A current measurement and on / off control in industrial environments, they are fully modular and each module can be configured as self-contained. They are ergonomic devices whose compliance with international standards, reliability and ease of use have been ensured at the design stage.

Device Features

2 pcs 4 Digit Display
4 pcs LED Display
1 pcs 0-1A or 0-5A Measurement Input
1 pcs Analog Output (0/4-20mA.0/2-10V)
1 pcs RS485 Communication Unit
4 pcs Relay or Logic Output (24VDC)
100-240V AC/DC Universal or 24V AC/DC Supply Voltage
Isolation Between Input/Output Modules

9 Different Relay Functions
ON/OFF Controls
100ms Sampling and Control Cycle
Standard MODBUS RTU communication protocol

Device Dimensions

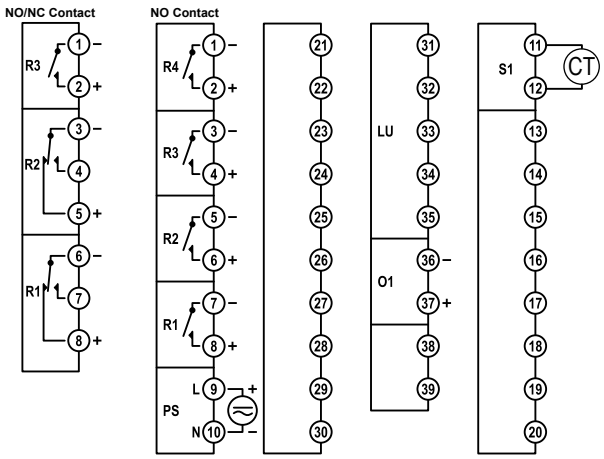


Panel Cutting Dimensions = 92 ± 0,5 mm x 92 ± 0,5 mm

Technical Specifications

Power Supply (PS)	100-240 Vac/dc +10%-15% Universal 24 Vac/dc +10%-20% Universal
Power Consumption	6W, 10VA
Universal Sensor Input (S1)	0.....1A AC , 0.....5A AC
Analog Output (O1)	Current = 0/4-20mA (RL≥500Ω) Voltage = 0/2-10V (RL≥1MΩ)
Relay Output (R1,R2,R3,R4)	Contact = 250VAC 10A Logic Output = 24Vdc 20mA
Contact Lifetime	No Load = 10.000.000 Switching 250V,10A Resistive Load = 1.000.000 Switching
Memory	100 Years, 100.000 Renewals
Accuracy	+/- 0,2%
Sampling Time	100 ms
Environment Temperature	Working = -10...+55°C Storage = -20...+65°C
Protection Class	Front Panel = IP54 Trunk = IP20
Dimensions	Width = 96 mm Height = 96 mm Depth = 110 mm
Panel Cutting Dimensions	92 +/- 0,5 mm x 92 +/- 0,5 mm
Weight	430 gr

Modular Structure and Connection Diagram



Module	Description
S1	Voltage measuring ends
LU	This module is RS485 communication unit (The content of this module is determined by the product code, function is selected from the configuration page).
O1	Analog output (The content of this module is determined by the product code, function is selected from the configuration page).
R1,R2,R3,R4	Relay output modules (The content of this module is determined by the product code, function is selected from the configuration page).
PS	Supply voltage input (Supply voltage is determined by product code).

Product Code

SC991A- __ / _0 / ____ /

Power Supply : (PS)
0 = 100-240Vac (Universal)
1 = 24Vac/dc

Communication Module : (LU)
0 = N/A
3 = RS485 (MODBUS) Communication Module

Analog Output Module : (O1)
0 = N/A
1 = 0/4-20mA Current Output
2 = 0/2-10Vdc Voltage Output

R1,R2 Output Modules : (R1-R2)
0 = N/A
1 = NO Contact
2 = 24V Logic Output (to drive SSR)
3 = NO/NC Contact

R3,R4 Output Modules : (R3-R4)
0 = N/A
1 = NO Contact
2 = 24V Logic Output (to drive SSR)

S1 Input Current Range : (S1)
1 = 0-1A
5 = 0-5A

Note : If R1 relay is coded as 3 (NO / NC), and relay R2 is selected as contact, it must be coded as NO / NC.
If the R2 relay is coded as 3 (NO / NC), and the R1 relay is selected as a contact, it must be coded as NO / NC.
If R1, R2 module is selected as 3, then R4 module must be coded as 0.