



Standard Control Device with Four Input





SC994

SC994 devices are 96 x 96 mm in size. They are designed to measure the temperature, pressure, speed, level, humidity, current, voltage, resistance and other physical units, as well as the on / off and PID control of many process variables in industrial environments. They are completely modular and each module can be configured individually. It is used in Food, Plastic, Iron Steel, Chemistry, Metallurgy, Cement, Ceramic, Petro-Chemistry, Refineries, Glass and other industries. They are ergonomic devices whose compliance with international standards, reliability and ease of use have been ensured at the design stage.

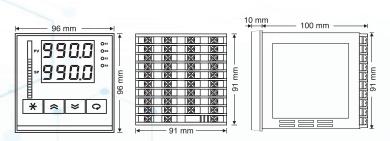
Device Features

- 2 pcs 4 Digit Display
- 4 pcs LED Display
- 4 pcs Universal Sensor Input (TC, RT, mA, mV, V)
- 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

ON / OFF Heating-Cooling Sensor Fault Detection 4 Different Relay Functions ON/OFF Controls 100ms Sampling and Control Cycle Standard MODBUS RTU communication protocol Configuration via computer

Input Types			
Sensor Type	Standard	Min.	Max.
Type-T (Cu-Const)	IEC60584	-200 °C	300 °C
Type-U(Cu-Const)	IEC60584	-200 °C	600 °C
Type-J (Fe-Const)	IEC60584	-200 °C	800 °C
Type-L(Fe-Const)	IEC60584	-200 °C	900 °C
Type-K (NiCr-Ni)	IEC60584	-200 °C	1200 °C
Type-E (Cr-Const)	IEC60584	-200 °C	1200 °C
Type-N (Nicrosil-Nisil)	IEC60584	0 °C	1200 °C
Type-S(Pt%10Rh-Pt)	IEC60584	0 °C	1500 °C
Type-R(Pt%13Rh-Pt)	IEC60584	0 °C	1600 °C
Type-B(Pt%18Rh-Pt)	IEC60584	0 °C	1800 °C
0 / 4-20 mA		0 mA	20 mA
0 / 2-10 VDC		0 VDC	10 VDC

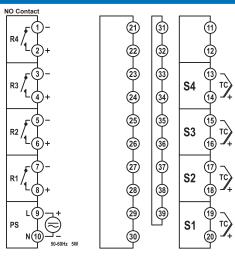
Device Dimensions



Panel Cutting Dimensions = $92 \pm 0.5 \text{ mm x } 92 \pm 0.5 \text{ mm}$

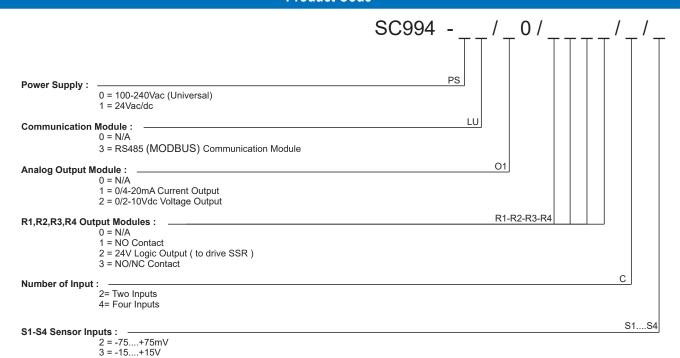
Technical Specifications 100-240 Vac/dc +10%-15% Power Supply (PS) 24 Vac/dc +10%-20% **Power Consumption** 6W. 10VA Thermocouple = B, E, J, K, L, N, R, S, T, U Two Wired Transmitter = 4-20mA **Universal Sensor Input** Resistance Thermometer = Pt-100 (S1) Current = 0/4-20mA Voltage = 0-50mV, 0/2-10V Transmitter Supply (TX) 24Vdc (Isc= 30mA) Thermocouple, mV = $10M\Omega$ **Analog Input Impedance** Current = 10Ω Voltage = $1M\Omega$ Current = 0/4-20mA (RL≥500Ω) **Analog Output** (01) Voltage = 0/2-10V (RL≥1MΩ) Relay Output (R1,R2,R3,R4) = 250VAC 10A Contact Logic Output = 24Vdc 20mA No Load = 10.000.000 Switching **Contact Lifetime** 250V,10A Resistive Load = 1.000.000 Switching Memory 100 Years, 100.000 Renewals **Accuracy** +/- 0,2% 100 ms **Sampling Time** Working = -10...+55°C **Environment Temperature** Storage = -20...+65°C **Protection Class** Front Panel = IP54 Trunk = IP20 Width = 96 mm Height = 96 mm **Dimensions** = 110 mm Depth **Panel Cutting Dimensions** 92 +/- 0,5 mm x 92 +/- 0,5 mm Weight 430 gr

Modular Structure and Connection Diagram



Module	Description	
\$1,\$2,\$3,\$4	Shows first and second universal sensor inputs (Input types are selected from the configuration page).	
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).	
01,02	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



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.

5 = Thermocouple (B,E,J,K,L,N,R,S,T,U)

4 = -30....+30mA