

Standard Control Device



SC30

Device Features

- 2 pcs 4 Digit Display
- 3 pcs LED Display
- 1 pcs Universal Sensor Input (TC, RT, mA, mV, V)
- 2 pcs Relay or Logic Output (24VDC)
- 24V AC/DC Supply

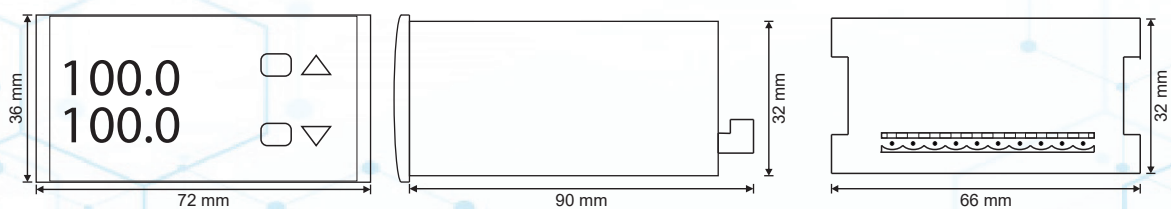
- Auto-Tuning (Automatic settings of PID parameters)
- Sensor Fault Detection
- 9 Different Relay Functions
- ON/OFF, P, PI, PID Controls
- Linear and Time Proportional Control Output
- 100ms Sampling and Control Cycle

SC30 devices are 72 x 36 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.

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
Pt-100	DIN 43760	-200 °C	850 °C
0 / 4-20 mA		0 mA	20 mA
0 / 2-10 VDC		0 VDC	10 VDC

Device Dimensions

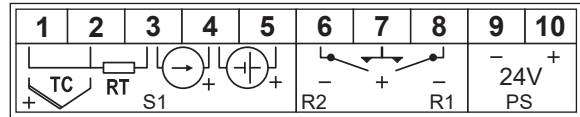


Panel Cutting Dimensions = 45 ± 0,5 mm x 45 ± 0,5 mm

Technical Specifications

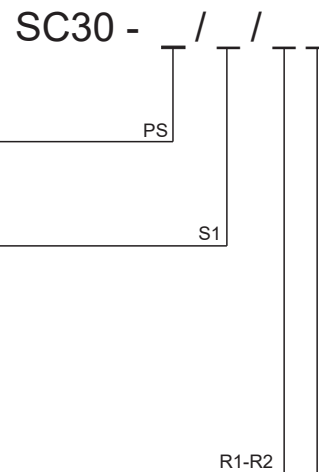
Power Supply (PS)	24 Vac/dc +10%-%20% Universal
Power Consumption	4W, 6VA
Universal Sensor Input (S1)	Thermocouple = B, E, J, K, L, N, R, S, T, U Resistance Thermometer Current = 0/4-20mA Voltage = 0-50mV, 0/2-10V
Analog Input Impedance	Thermocouple, mV = 10MΩ Current = 10Ω Voltage = 1MΩ
Relay Output (R1,R2,R3)	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 = 72 mm Height = 37 mm Depth = 90 mm
Panel Cutting Dimensions	66 +/- 0,5 mm x 32 +/- 0,5 mm

Modular Structure and Connection Diagram



Module	Description
S1	Universal sensor input module.
R1,R2	Relay output modules.
PS	Supply voltage input.

Product Code



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

Sensor Type : _____ S1
 0 = TC (B,E,J,K,L,N,R,S,T,U)
 RT (Pt-50,Pt-100,Ni-100,Ni-120)
 V (0-50mV,0-10V,2-10V)
 mA (0-20mA,4-20mA)
 1 = TC (B,E,J,K,L,N,R,S,T,U)
 RT (Pt-500,Pt-1000,Ni-200,Ni-500,NiFe-604,NiFe-507)
 V (0-50mV,0-10V,2-10V)
 mA (0-20mA,4-20mA)

R1,R2 Output Modules : _____ R1-R2
 0 = N/A
 1 = NO Contact
 2 = 24V Logic Output (For SSR Driving)

*Note: Since one end of the two relays is common, both relay outputs must be coded as the same type.
 For example, if R1 is NO Contact, then R2 should be selected as NO Contact.*