

Timing Control Device



OC30

OC30 devices are 72 x 36 mm in size. They are easy-to-use devices designed for applications where temperature and timing processes need to be handled together.

They are fully modular devices that can perform on / off and PID control, and each module can be configured as self-contained.

Device Features

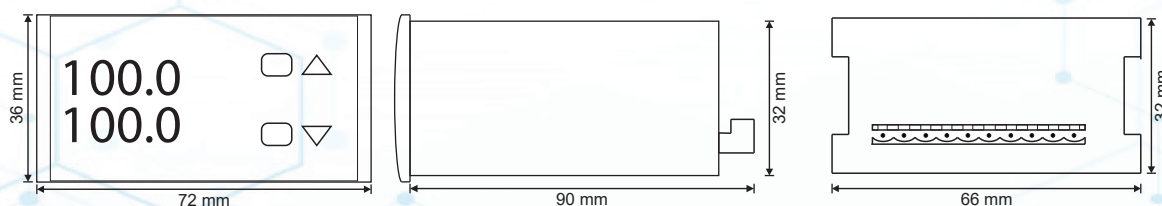
- 2 pcs 4 Digit Display
- 3 pcs LED Indicator
- 1 pcs Sensor Input (B,E,J,K,L,N,R,S,T,U,RT)
- 2 pcs Relay or Logic Output (24VDC)
- 24V AC/DC Supply
- Isolation Between Input/Output Modules

- PID Heating/Cooling
- Auto-Tuning (Automatic setting of PID parameters)
- Sensor Error Detection
- Ramp Functions
- 2 pcs Working Modes
- 17 Different Relay Functions
- ON/OFF, PID Control
- 3 pcs Step Recognize
- Linear and Time Proportioning Control Output
- 100ms Sampling and Control Cycle

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

Device Dimensions

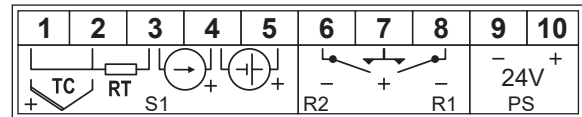


Panel Cutting Dimensions = 66+/-0,5 mm x 32+/-0,5 mm

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 = Pt-100 Current = 0/4-20mA Voltage = 0-50mV, 0/2-10V
Analog Input Impedance	Thermocouple, mV = 10MΩ Current = 10Ω Voltage = 1MΩ
Relay Output (R1,R2)	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

Power Supply :	OC30 - 0 / /	PS
Sensor Type :		S1
R1,R2 Output Modules :		R1-R2

0 = 24Vac/dc
 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)

0 = N/A
 1 = NO Contact
 2 = 24V Logic Output (to drive SSR)

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.