

Timing Control Device



OC770

OC770 devices are 72 x 72 mm in size. They are easy-to-use devices designed for applications where temperature and timing processes should be carried out together.

They can control on / off and PID and are completely modular and each module can be configured individually.

Thanks to the universal feeding source, it can be used with all kinds of feeding sources. RS485 MODBUS RTU communication module offers the possibility of remote monitoring and control.

Device Features

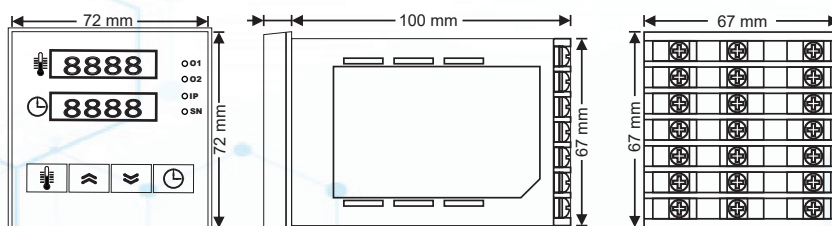
- 2 pcs 4 Digit Display
- 4 pcs LED Indicator
- 1 pcs Sensor Input (B,E,J,K,L,N,R,S,T,U,RT)
- 1 pcs Analog Output (0/4-20mA,0/2-10V)
- 1 pcs RS485 Communication Unit
- 3 pcs Relay or Logic Output (24VDC)
- 100-240V AC/DC Universal or 24V AC/DC Supply
- Isolation Between Input/Output Modules

- PID Heating/Cooling
- Auto-Tuning (Automatic setting of PID parameters)
- Sensor Error Detection
- Signal Input for Start-Stop
- Ramp Functions
- 2 Item Operating Modes
- Retransmission (For Process and Set Value)
- 17 Different Relay Functions
- ON/OFF, PID Control
- 3 Item Step Recognize
- Linear and Time Proportioning Control Output
- Bumpless Transfer Ability
- 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
Pt-100	DIN 43760	-200 °C	850 °C

Device Dimensions

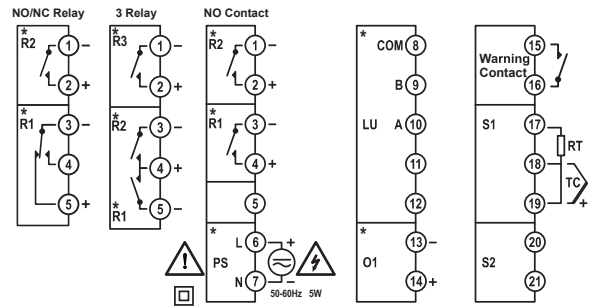


Panel Cutting Dimensions = 68 ± 0,5 mm x 68 ± 0,5 mm

Technical Specifications

Power Supply (PS)	100-240 Vac/dc +10%-15% 24 Vac/dc +10%-20%
Power Consumption	5W, 8VA
Universal Sensor Input (S1)	Thermocouple = B, E, J, K, L, N, R, S, T, U Resistance Thermometer = Pt-100
Analog Input Impedance	Thermocouple, mV = 10MΩ
Analog Output (O1)	Current = 0/4-20mA 20-4/0mA (RL≥500Ω) Voltage = 0/2-10V (RL≥1MΩ)
Relay Output (R1,R2,R3)	Contact (R1,R2) = 250VAC 10A Contact (R3) = 250Vac 5A 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 = 72 mm Depth = 110 mm
Panel Cutting Dimensions	68 +/- 0,5 mm x 68 +/- 0,5 mm
Weight	292 gr

Modular Structure and Connection Diagram



Product Code

OC770 - / 0 / 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 Output Module :	_____ R1
0 = N/A	
1 = NO Contact	
2 = 24V Logic Output (to drive SSR)	
3 = NO/NC Contact	
R2,R3 Output Modules :	_____ R2-R3
0 = N/A	
1 = NO Contact	
2 = 24V Logic Output (to drive SSR)	

Note : If R3 relay output is coded, R1 and R2 relay outputs must be coded as the same type and NO / NC cannot be selected.
If the relay output R1 is coded as 3 (NO / NC), the R3 module must be 0.