

Oven Control Device



OC771

ONE THERMOCOUPLE INPUT

OC771 devices are 72 x 72 mm in size. They are oven control devices that control temperature with a single thermocouple or resistance thermometer and are used for time-dependent processes.

They can perform temperature control with on / off and PID control, have automatic / manual steam output, can alarm at the end of time, they are fully modular and each module can be configured as self-contained devices.

Thanks to its universal supply source, it can be used with 100-240VAC / DC or 24V supply source.

Device Features

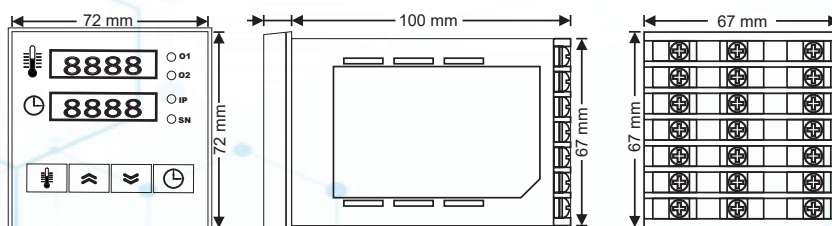
- 2 pcs 4 Digit Numeric Display
- 4 pcs LED Indicator
- 1 pcs Sensor Input (B,E,J,K,L,N,R,S,T,U,RT)
- 1 pcs Analog Output (0/4-20mA,0/2-10V)
- 1 pcs RS485 Communication Unit
- 3 pcs Relay or Logic Output (24VDC)
- 100-240V AC/DC Universal or 24V AC/DC Supply
- Isolation Between Input/Output Modules

- Temperature Control Output (ON/OFF or PID CONTROL)
- Independent Set Temperature and Time
- Oven Time Can be Adjusted Between 0...9999 or 0,0...999,9
- Time can be set between 0...999 (in sec., min., or hours)
- Alarm Control Can be Adjusted Continuous or Time Dependent
- Automatic/Manual Steaming
- Steam Time Can be Adjusted Between 1...9999 sec
- Temperature Scroll
- Sensor Error Detection
- Retransmission (For Process and Set Value)
- 15Vdc Logic Inputs
- Optional Special Software for Logic Inputs
(Example: Start/Stop or Steaming Depending on the Door Switch)

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 |

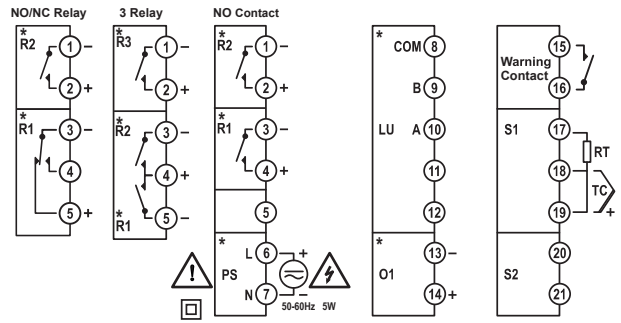
Device Dimensions



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

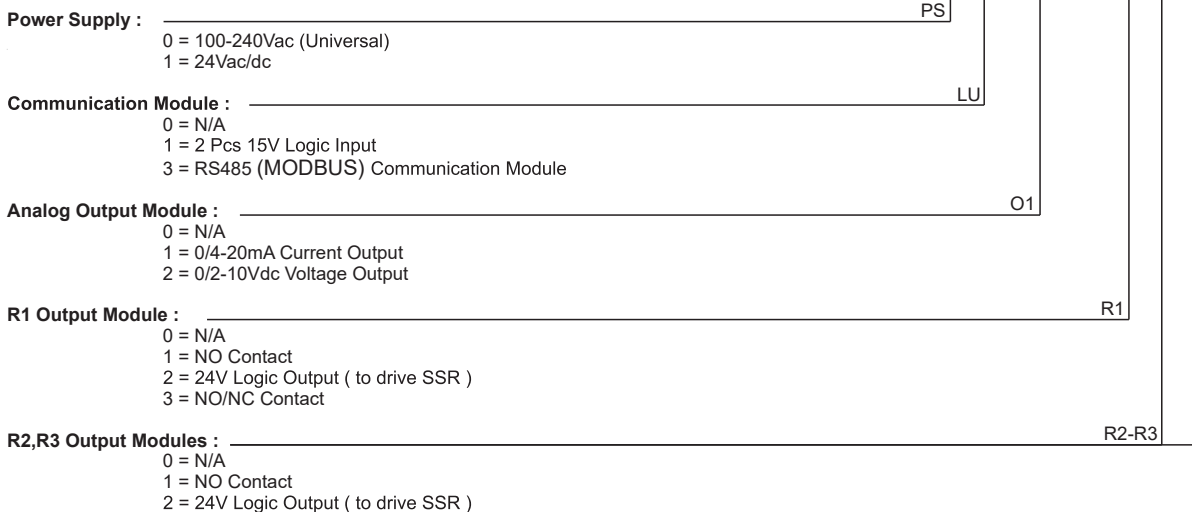
| Technical Specifications | |
|-------------------------------|---------------------------------------------------------------------------------|
| Power Supply (PS) | 100-240 Vac/dc +10%-15% 24 Vac/dc +10%-20% |
| Power Consumption | 4W, 6VA |
| Universal Sensor Input (S1) | Thermocouple = B, E, J, 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,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 | 91 +/- 0,5 mm x 91 +/- 0,5 mm |
| Weight | 430 gr |

Modular Structure and Connection Diagram



Product Code

OC771 - / 0 / 0



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.