

Oven Control Device



OC994

FOUR THERMOCOUPLE INPUT

OC994 devices are 96 x 96 mm in size. They are oven control devices that control temperature from four points with four thermocouple inputs and are used for time-dependent cooking processes.

They can perform temperature control with on / off control, have automatic / manual steam release feature, 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
- 6 pcs LED Indicator
- 4 pcs Sensor Input (B,E,J,K,L,N,R,S,T,U,RT)
- 2 pcs Analog Output (0/4-20mA,0/2-10V)
- 1 pcs RS485 Communication Unit
- 6 pcs Relay or Logic Output (24VDC)
- 100-240V AC/DC Universal or 24V AC/DC Supply
- Isolation Between Input/Output Modules

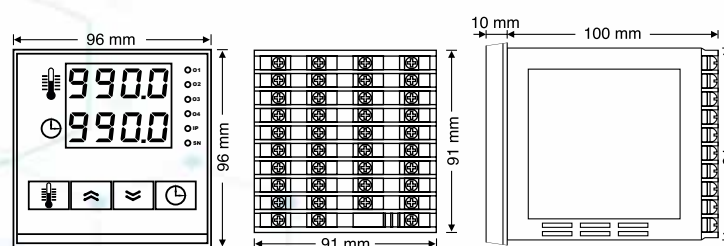
- 4 Pcs Temperature Control Output(ON/OFF or PID CONTROL)
- Single or Common Setpoint Definition
- Independent Set Temperature and Time
- Oven Time Can be Adjusted Between 0...9999 or 0,0...999,9
- Time can be set between 0...999 (in sec., min., or hours)
- Alarm Control Can be Adjusted Continuous or 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)

NOTE: Customer-specific programmatic requests can be made regarding the operation of the device.

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

Device Dimensions

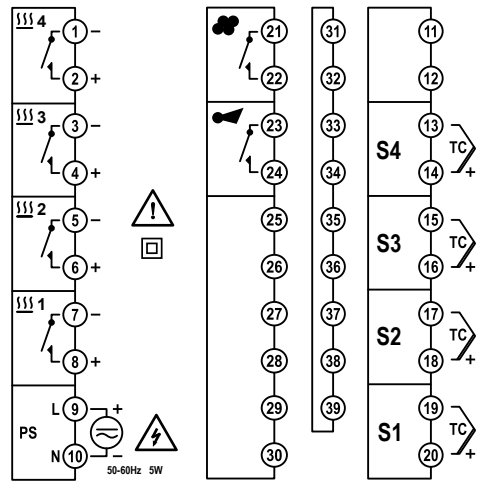


Panel Cutting Dimensions = 92 ± 0,5 mm x 92 ± 0,5 mm

Technical Specifications

Power Supply (PS)	100-240 Vac/dc +10%-15% 24 Vac/dc +10%-20%
Power Consumption	4W, 6VA
Universal Sensor Input (S1...S4)	Thermocouple = B ,E, J, K, L, N, R, S, T, U
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

OC994 - / 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,R2 Output Modules : _____ R1-R2

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

R3,R4 Output Modules : _____ R3-R4

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

R5 Steam,R6 Buzzer Output Modules : _____ R5-R6

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

*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.*