Timing Control Device

Configuration Via Computer

OC940

OC940 devices are 96 x 48 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

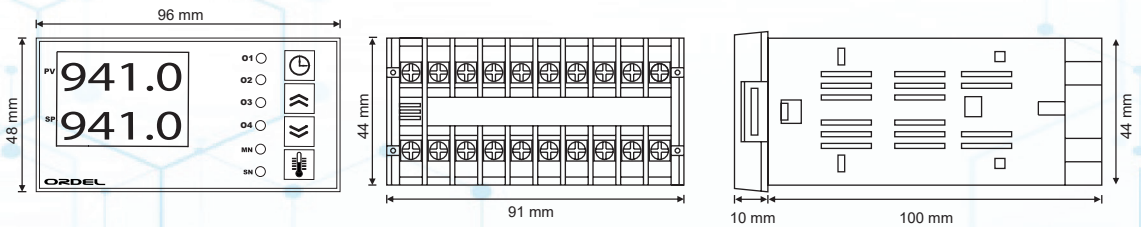
2 pcs 4 Digit Display
6 pcs LED Indicator
1 pcs Sensor Input (B,E,J,K,L,N,R,S,T,U,RT)
1 pcs Analog Output (0/4-20mA.0/2-10V)
1 pcs RS485 Communication Unit
4 pcst Relay or Logic Output (24VDC)
100-240V AC/DC Universal or 24V AC/DC Supply
Isolation Between Input/Output Modules

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

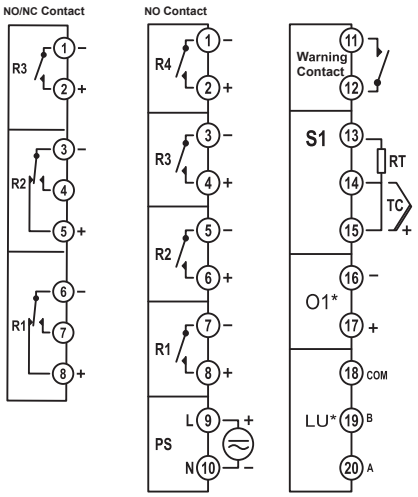


Panel Cutting Dimensions = 91+/-0,5 mm x 46+/-0,5 mm

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 = 48 mm Depth = 110 mm
Panel Cutting Dimensions	91 +/- 0,5 mm x 46 +/- 0,5 mm
Weight	430 gr

Modular Structure and Connection Diagram



Product Code

OC940 - __ / __ 0 / ____

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

Communication Module : (LU)
0 = N/A
1 = 2 pcs 15V Logic Input
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)

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.