

Digital Potentiometer



PT94

PT94 devices are 96 x 48 mm in size. It is designed to convert potentiometer information in industrial environments to various analog signals or to receive manual analog output. They are ergonomic devices based on international standards compliance, reliability and ease of use.

Device Features

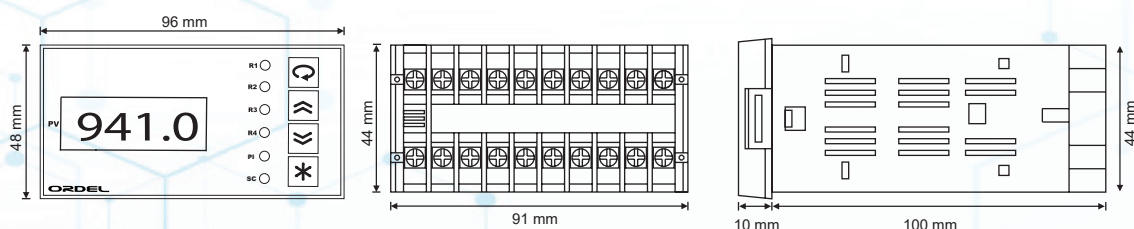
- 1 pcs 4 Digit Numeric Display
- 4 pcs LED Display
- 1 pcs Potentiometer Input
(For Entries Over 5KΩ, Contact Our Company)
- 1 pcs RS485 Communication Unit
- 1 pcs Analog Output (0/4-20mA, 0/2-10V)
- 4 pcs Relay or Logic Output (24VDC)
- 100-240V AC/DC Universal or 24V AC/DC Supply
- Isolation Between Input/Output Modules

- Sensor Error Detection
- 9 Different Relay Functions
ON/OFF
- Linear and time-proportional control output
- 100ms Sampling and Control Cycle
- Standard MODBUS RTU Communication Protocol
- Configuration Via Computer

Input Types

Sensor Type	Standard	Min.	Max.
Potentiometer	0,1 ohm		5000 ohm
0 / 4-20 mA	0 mA		20 mA
0 / 2-10 VDC	0 VDC		10 VDC

Device Dimensions

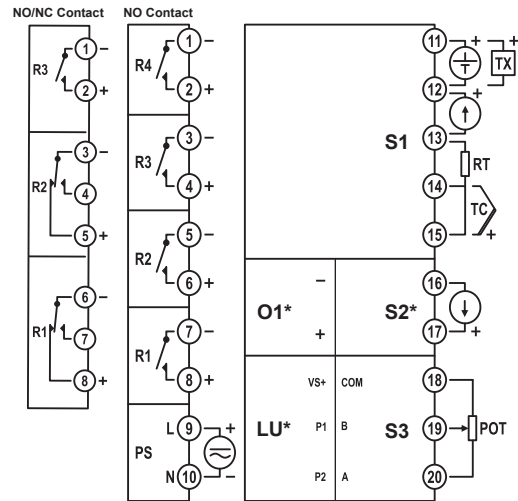


Panel Cutting Dimensions = 91+/-0,5 mm x 46+/-0,5 mm

Technical Specifications

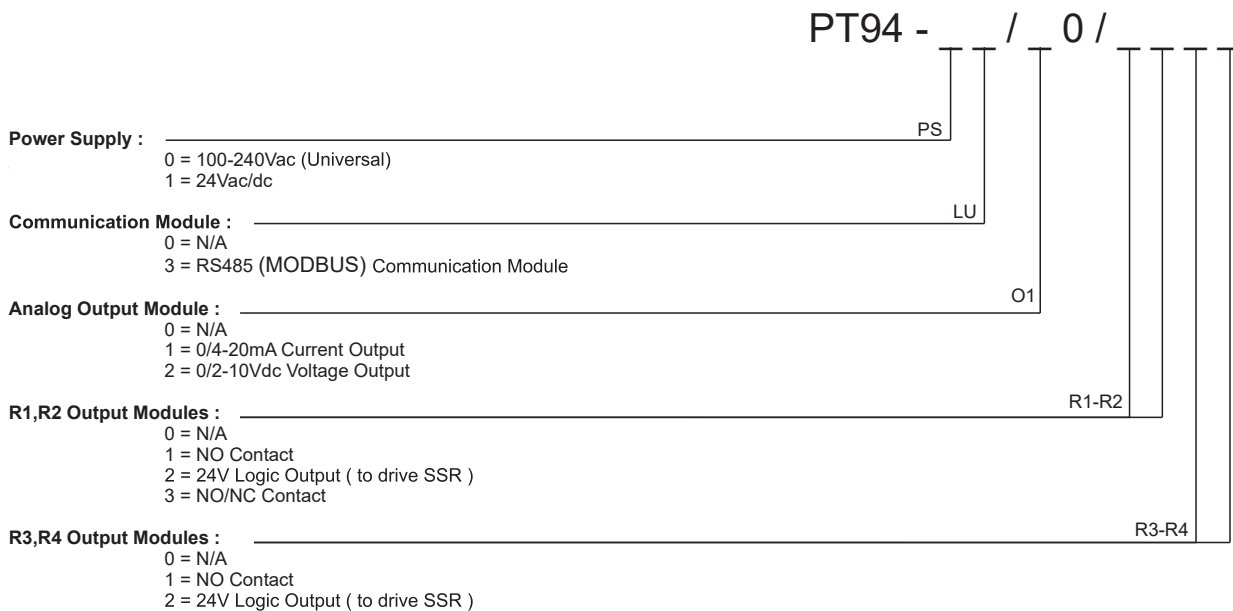
Power Supply (PS)	100-240 Vac/dc +10%-15% 24 Vac/dc +10%-20%
Power Consumption	6W, 10VA
Potentiometer Input	10 KΩ
Analog Output (O1)	Current = 0/4-20mA (RL≥500Ω) Voltage = 0/2-10V (RL≥1MΩ)
Relay Output (R1,R2)	Contact = 250VAC 10A Logic Output = 24Vdc 20mA
Contact Lifetime	Without Load = 10.000.000 Switching With 250V,10A resistive load : 100.000 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 Back Panel = 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



Module	Description
S1	Universal sensor input module (the sensor used to measure process value should be connected to the terminals with appropriate symbol on this module).
LU	This module is RS485 communication unit (The content of this module is determined by the product code, function is selected from the configuration page).
O1	Analog output (The content of this module is determined by the product code, function is selected from the configuration page).
PS	Supply voltage input (Supply voltage is determined by product code).

Product Code



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.