Two Wires Rail Mounting Signal Converter

Configuration Via Computer

UST50

UST50 Model devices are Rail Mounting devices. They convert the temperature information received from thermocouple or resistance thermometer type temperature sensors to 4-20mA analog signal.

These devices are microprocessor-based and can easily be used by configuring over computer with SBA100 USB/UART Convertor.

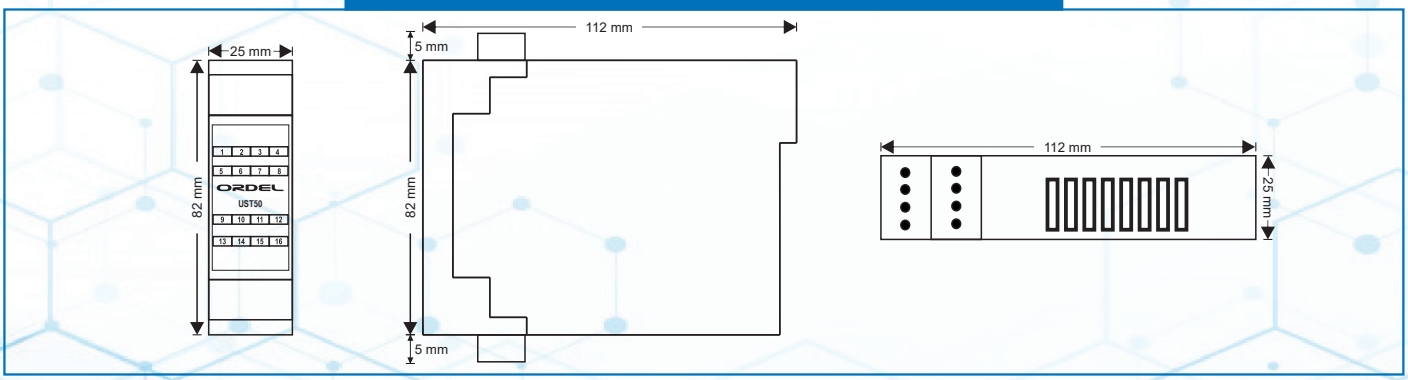
Technical Specifications

Power Supply (PS)	10-35 VDC
Universal Sensor Input (S1)	Thermocouple = B, E, J, K, L, N, R, S, T, U Resistance Thermometer = Pt-100, Pt-1000
Thermocouple Input Impedance	10MΩ
Output	Current = 0/4-20mA
Memory	100 Years, 100.000 Renewals
Accuaracy	+/- 0,2%
Sampling Time	100 ms
Environment Temperature	Working = -10...+55°C Storage = -20...+65°C
Dimensions	Width = 25 mm Height = 92 mm Depth = 112 mm
Weight	134 gr

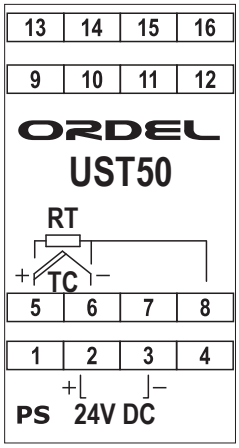
Input Types

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
Pt-1000	DIN 43760	-70 °C	500 °C

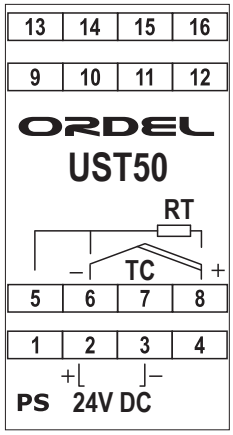
Device Dimensions



Modular Structure and Connection Diagram



Insulated



Uninsulated

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Product Code

UST50 - _ / _

PS

Isolation :

0 = N/A
1 = 1500 VDC

Sensor Input Types :

0 = TC (B,E,J,K,L,N,R,S,T,U) - RT (Pt-100)
1 = TC (B,E,J,K,L,N,R,S,T,U) - RT (Pt-1000)