

Universal Signal Converter (Optional RS485 Communication Feature)



UST150

UST150 Model devices are devices used in converting various analog signals used in industrial environments into standard analog signals isolated from the input. These devices have one universal analog input, one RS485 communication module and one analog output.

These devices are microprocessor based. It can be easily configured and used on a computer with SBA100 USB-UART converter or RS485 communication protocol. In addition, due to the RS485 communication protocol connection, it provides the opportunity to monitor and record the sensor information in the computer environment.

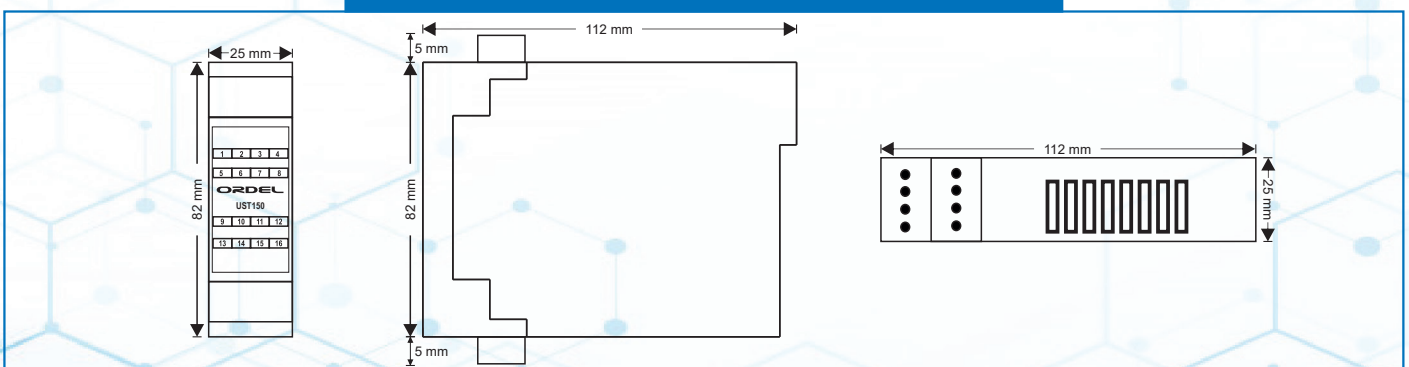
Technical Specifications

Power Supply (PS)	100-240 Vac/dc +10% -15% 24 Vac/dc +10% -20%
Power Consumption	5W, 8VA
Analog Inputs (I1)	Thermocouple = B, E, J, K, L, N, R, S, T, U Resistance Thermometer = Pt-100 Current= 0/4-20mA Voltage = 0-50mV, 0/2-10V
Transmitter Supply (TX)	24Vdc (Isc= 30mA)
Thermocouple Input Impedance	Thermocouple, mV = 10MΩ Current = 10Ω
RS485 Communication Module	RS485 MODBUS RTU
Analog Output (O1)	Current = 0/4-20mA (RL≥500Ω) Voltage = 0/2-10V (RL≥1MΩ)
Memory	100 Years, 100.000 Renewals
Accuracy	+/- 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

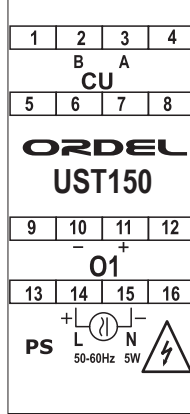
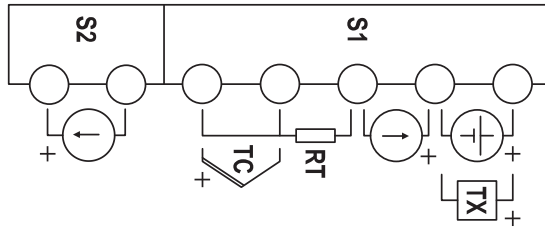
Input Types

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
0 / 4-20 mA		0 mA	20 mA
0 / 2-10 VDC		0 VDC	10 VDC

Device Dimensions



Modular Structure and Connection Diagram



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Product Code

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Supply Voltage : _____ PS

0 = 100-240Vac/dc (Universal)
1 = 24 Vac/dc

Input Type Options (I1) : _____ I1

0 = TC, RT, mV, mA
1 = Pt-1000

Analog Output Module (O1) : _____ O1

0 = N/A
1 = 0/4-20mA Current Output
2 = 0/2-10Vdc Voltage Output

Communication Module (CU) : _____ CU

0 = N/A
3 = RS485 (MODBUS) Communication Module