Analog Signal Converter USERS' GUIDE



DESCRIPTION of the DEVICE

UST150 Model devices are used to convert analog signals that are created in any environment to standart analog signals isolated from

These devices are microcontroller based and can be configured easily by using SBA100 USB/UART Converter. All inputs and outputs are isolated.

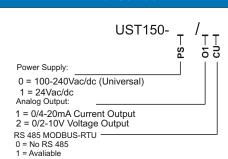
SAFETY PRECAUTIONS

- Before using the device, please read the warnings below and this guide carefully. The accidents or damages resulting from not following the warnings included in this guide are under user's responsibility.
- This device is intended to be used by qualified personnel in industrial environments, do not use in houselike environments.
- Do not use the device at places where corrosive, flammable and explosive gases exist. Contact points may create electrical discharge and this may cause explosion or fire.
- Do not allow metal fragments or lead wire scraps or liquid matters to fall inside this device. Otherwise fire or electrical shock may happen.
- Take the neceessary precautions in order to prevent accidents and damages that may result in case the device gets faulty.
- There is no fuse or switch that brings the device in power down state, these should be added to the system by the user.
- Sensor and signalling cables should not be routed close to the power cables or inductive load cables.
- Before connecting the device, supply voltage must be checked if it is suitable according to the product code.
- Do not power up the device before the connections related with the device are performed in accordance with the connection diagram. While the device is powered, do not touch on the terminals.
- Configuration settings at factory out should be changed according to the user's preferences. The accidents and damages resulting from incorrect configuration settings are under users' responsibility.
- Lifetime of the device is 10 years.

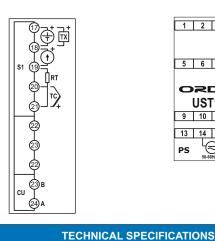
Manufacturer and Technical Service:

Never disassemble, repair and modify the device. These should be carried out by

PRODUCT CODE



CONNECTION DIAGRAM



Power Supply

Power



100-240Vac/dc: +%10 -%15 | 24Vac/dc: +%10 -%20 3W 5VA Termocouple (B,E,J,K,L,N,R,S,T,U), Resistance Thermometer (Pt100),2 WireTransmitter, Current(0/4-Universal Analog Input(S1) 20mA), Voltage (0-50mV, 0/2-10V) 24Vdc (Isc = 30mA) Termocouplel: $10M\Omega$, Current: 10Ω , Voltage: $1M\Omega$ Current: 0/4-20mA, 20-4/0mA ($RL \le 500\Omega$)

Transmitter Voltage Analog Input Impedance Analog Output (O1) Voltage: 0/2-10V, 10-2/0V (RL \geq 1 $\overline{\text{M}\Omega}$) 100 yıl, 100.000 renewals Memory +/- %0.2 Doğruluk 100ms Sampling Time Operation: -10...+55C, Storage: -20...+65C **Environment Temperature** Protection **IP20** Dimensions Width: 25 mm. Height: 91 mm. Depth: 113 mm 134 gr Weight

SENSOR TYPES

Canaar Tima	04	Temperature			
Sensor Type	Standart	(°C)	(°F)		
Type B Thermocouple	IEC584-1	60, 1820	140, 3308		
Type E Thermocouple	IEC584-1	-200, 840	-328, 1544		
Type J Thermocouple	IEC584-1	-200, 1120	-328, 1562		
Type K Thermocouple	IEC584-1	-200, 1360	-328, 2480		
Type L Thermocouple	DIN43710	-200, 900	-328, 1652		
Type N Thermocouple	IEC584-1	-200, 1300	-328, 2372		
Type R Thermocouple	IEC584-1	-40, 1760	104, 3200		
Type S Thermocouple	IEC584-1	-40, 1760	104, 3200		
Type T Thermocouple	IEC584-1	-200, 400	-328, 752		
Type U Thermocouple	DIN43710	-200, 600	-328, 1112		
Pt100 Resistance Thermometer	IEC751	-200, 840	-328, 1544		

COMMUNICATION ADRESSES

REGISTER Type Parameters (REGISTERS)

Adres	Açıklama	Ayar Aralığı		Çarpan	Birim	Yazma İzni
0	Decimal Point (DP)	0	3	1		Yok
1	Prosess Value	-1999	9999	10^DP	EU	Yok
41	Sensor type	0	15	1		
42	Sensor measurement below limit	-1999	9999	1		
43	Sensor measurement above limit	-1999	9999	1		
44	Sensor connection broken	0	1	1		
59	Analog ouput typei(O1)	0	7	1		
60	Analog output below limit value	-1999	9999	1		
61	Analog output above limit value	-1999	9999	1		

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