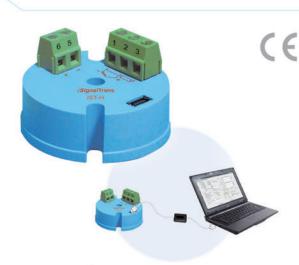


IST-H Microprocessor Based **Programmable Isolated Signal Transmitter**

Features

- Programmable for various input signals, measuring range
- Suitable to Mount Inside a KN box.
- Programmable for various input signals, measuring range
- Configurable without external Loop Power Connected.
- Input:
 - Resistance thermometer (Pt100) Thermocouple (J,K,T,E,B,R,S,N,C) Voltage/Current, mV (V/mA not selectable, request by order.)
- - 2-wire loop-power technology, 4 to 20 mA or 20 to 4 mA analog output.
- High accuracy in total ambient temperature range.
- Fault signal on sensor break presettable.



Configuration

The ¿SignalTrans® IST-H transmitter is user configurable with the ¿Signalwin® software and interface cable URC-1020 or handheld programmer. The ¿Signalwin® is user-friendly software. The latest release version can be download free from website. Interface cable consist of interface converter and USB plug. It can be purchased separately from the 2'SignalTrans® supplier. During configuration the transmitter can work alone without connecting to a power source.

Specification		
Input	Thermocouple (T/C): industry standard thermocouple	
	types J, K, T, E, B, R, S, N, C (ITS-90).	
	Pt100: Excitation 180uA. 2 or 3 wire connection	
	(ITS-90 α =0.00385).	
	Voltage: -60mVdc to 60mVdc or -10Vdc to 10Vdc.	
	Current: 0-24mAdc	
Accuracy	Refer to Table 1 Input Signal	
A/D Resolution	16 bits	
Input Sampling Rate	<200ms	
Power Supply	DC 10 to 36V	
Max. Load	(V-10)/0.02 (Ω)	
Output Resolution	0.6 μ A(15 bits)	
Output Response Time	<200ms	
Common Mode	>80dB	
Rejection Ratio(CMRR)		
Electromagnetic	En 50081-2, En 50082-2	
Compatibility (EMC) Galvanic Isolation	3.75 KV. between input and output	
Operating Temperature	The second secon	
Humidity	0 to 90% RH	

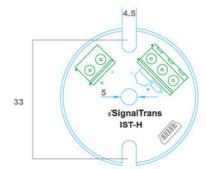
	Table	Table 1 Input Signal	
Input signal	Maximum Range	Accuracy	
Thermocouple J	-50 to 1000 °C (-58 to 1832 °F)	±1°C	
Thermocouple K	-50 to 1370 °C (-58 to 2498 °F)	±1°C	
Thermocouple T	-270 to 400 °C (-454 to 752 °F)	±1°C	
Thermocouple E	-50 to 700 °C (-58 to 1292 °F)	±1°C	
Thermocouple B	0 to 1750 °C (32 to 3182 °F)	±2"C(Note 1)	
Thermocouple R	-50 to 1750 °C (-58 to 3182 °F)	±2°C	
Thermocouple S	-50 to 1750 °C (-58 to 3182 °F)	±2°C	
Thermocouple N	-50 to 1300 °C (-58 to 2372°F)	±2°C	
Thermocouple C	-50 to 1800 °C (-58 to 3272°F)	±2°C	
Pt100	-200 to 600 °C (-328 to 1112 °F)	±0.2°C	
mV	-60mVto 60mV	±0.01mV	
Voltage (Note 2)	-10 to 10Vdc	±1mV	
Current (Note 2)	0 to 24mAdc	±10 μ A	

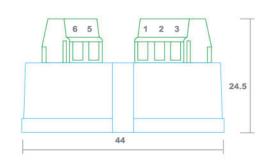
Note 1 :Accuracy is not guaranteed between 0 and 400°C (0 and 752°F) for type B.

Note 2: Not selectable, Special request please contact your supplier.



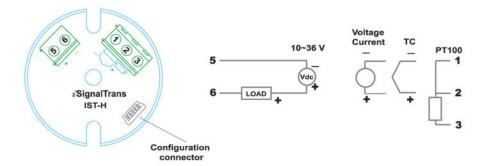
Dimension





(Unit:mm)

Electrical Connection

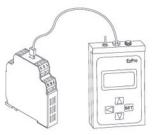


Ordering Information

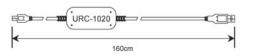
IST-H

The unit will come standard with PT100, -200~600°C, you can change the input Type/Rang using the free software "2Signalwin®" with the configuration cable URC-1020, or you can contact us for non-standard Input/Rang setting.

[Accessory]







URC-1020 Interface Cable