

IST-D & IST-H

Microprocessor Based Programmable Isolated Signal Transmitter



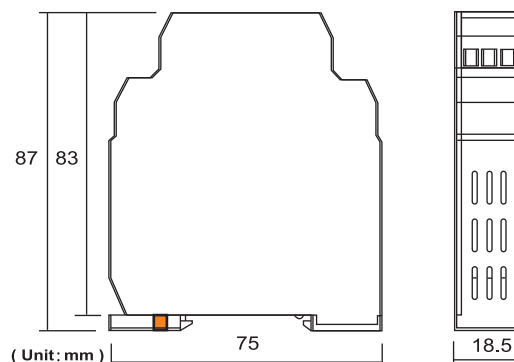
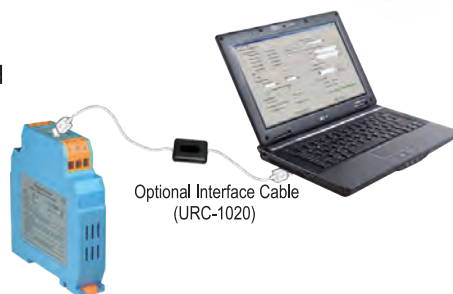
Features

- Model: **IST-D** is suitable for DIN Rail mounting
- Model: **IST-H** is suitable to mount inside of the Thermocouple Head (ex: model: KN head)
- Programmable for various input signals, measuring range
- Configurable without external Power Connected.
- Configurable Input: Resistance thermometer (Pt100)
Thermocouple (J,K,T,E,B,R,S,N,C)
Voltage/Current, mV (V/mA not selectable, request by order.)
- Output: 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.

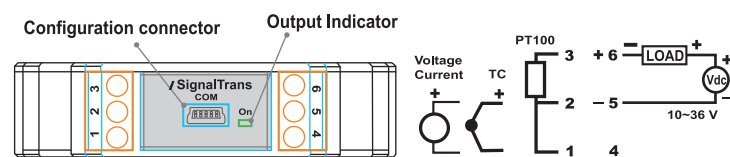
Configuration

The IST-D & IST-H transmitter are user configurable by the optional interface cable URC-1020 c/w free software "Signalwin" or handheld programmer.
The Interface cable consist of interface converter and USB plug, and no need connecting a power source during configuration.

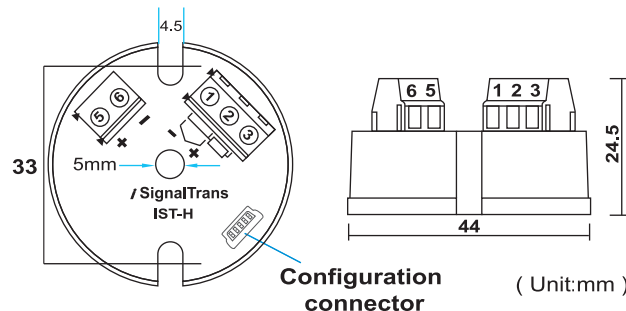
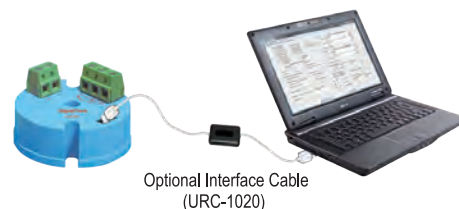
IST-D



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 $\alpha=0.00385$).
	Voltage: -60mVdc to 60mVdc or -10Vdc to 10Vdc.
	Current: 0-24mAdc
Accuracy	Refer to Table in ordering information
A/D Resolution	16 bits
Input Sampling Rate	<200ms
Power Supply	DC 10 to 36V
Max. Load	(V-10)/0.02 (Ω)
Output Resolution	0.6uA(15 bits)
Output Response Time	<200ms
Common Mode Rejection Ratio(CMRR)	>80dB
Electromagnetic Compatibility (EMC)	En 50081-2, En 50082-2
Galvanic Isolation	3.75 KV. between input and output
Operating Temperature	-40 to 85°C
Humidity	0 to 90% RH



IST-H



Ordering information

IST- **D** - **K** - **0~400** - **A** - **N**

Explosion Proof	Code
Yes	Y
No	N

Input Signal	Code	Temperature Range	Accuracy
Thermocouple J	J	-50 to 1000°C (-58 to 1832°F)	±1°C
Thermocouple K	K	-50 to 1370°C (-58 to 2498°F)	±1°C
Thermocouple T	T	-270 to 400°C (-454 to 752°F)	±1°C
Thermocouple E	E	-50 to 960°C (-58 to 1760°F)	±1°C
Thermocouple B	B	0 to 1750°C (32 to 3182°F)	±2°C
Thermocouple R	R	-50 to 1750°C (-58 to 3182°F)	±2°C
Thermocouple S	S	-50 to 1750°C (-58 to 3182°F)	±2°C
Thermocouple N	N	-50 to 1300°C (-58 to 2372°F)	±2°C
Thermocouple C	C	-50 to 1800°C (-58 to 3272°F)	±2°C
Pt100	D	-200 to 600°C (-328 to 1112°F)	±0.2°C
mV	L	-60mV to 60mV	±0.01mV
Voltage	V	-10 to 10Vdc	±1mV
Current	M	0 to 24mAdc	±10uA

Note: The accuracy is not guaranteed between range under 400°C/752°F

Output	Code
4 to 20 mA	A
20 to 4 mA	B
Other	C

※ Please specify the Input/Range/Output if factory setting is requested.