

Head Mounted Temperature Transmitter HT^U, Isolated Head Mounted Temperature Transmitter(HT^{UI}), Din Rail Temperature Transmitter (DRT^U) & Isolated Din Rail Temperature Transmitter (DRT^{UI})



The HT^U, HT^{UI}, DRT^U & DRT^{UI} are device that can be configured to work in variety of industrial processes. The input sensor can be configured to accept RTD's and thermocouples. HT^U, HT^{UI}, DRT^U & DRT^{UI} converts the sensor signal into a 4 to 20mA output proportional to the measured value. The smart transmitters has USB communication, through which the transmitter configuration and sensor range selection can be done.

Features

- **Programmable Input:**
 - Thermocouples J, K, T, E, N, R, S, B
 - RTD Pt100
- User programmable working range
- 2-wire loop powered 4-20mA output
- 2, 3 or 4-wire RTD and thermocouples with linear output
- Cold junction compensation for thermocouples
- Configuration on a PC with the HTConfig interface
- HT^{UI} & DRT^{UI} Provides high isolation of 2KVAC between input & output.

INPUT	RANGE	MIN SPAN
Thermocouple J	-100 to 760°C	100°C
Thermocouple K	-150 to 1370°C	100°C
Thermocouple N	-270 to 1300°C	100°C
Thermocouple E	-90 to 720°C	100°C
Thermocouple T	-160 to 400°C	100°C
Thermocouple R	0 to 1760°C	400°C
Thermocouple S	0 to 1760°C	400°C
Thermocouple B	0 to 1760°C	400°C
RTD Pt100	-100 to 650°C	40°C

Specification

Model	Programmable Micro controller based temperature Transmitter HT ^U , HT ^{UI} , DRT ^U & DRT ^{UI}
Feature	HT ^U , HT ^{UI} , DRT ^U & DRT ^{UI} are 4-20mA temperature transmitters for the most common temperature application. One single model can be configured to accept several thermocouple types and Pt100 RTDs. Thermocouples type J, K, T, E, N, R, S, B and Pt100 RTD with programmable output for t/c and Pt100. Cold junction compensation for thermocouples, 2, 3 or 4 wire Pt100 with linearization. Windows configurator (optional). Configuration with a PC via cable.
Power Supply	12 to 25 V DC
Accuracy	Pt100 ±0.2% full scale, Thermocouple ±0.3% max. of full scale
Working Temp.	0 to 70°C
Resolution	0.25µA
Maximum Load	200Ω at 18V 500Ω at 24 V

Head Mounted Temperature Transmitter HT^U, Isolated Head Mounted Temperature Transmitter(HT^{UI}), Din Rail Temperature Transmitter (DRT^U) & Isolated Din Rail Temperature Transmitter (DRT^{UI})



Connection Diagram

