

TT1 Smart Temperature Transmitter

Head mounted temperature transmitter is used for resistance thermometer (RTD), thermocouple (TC), Resistance transmitter, voltage (mV) signal input, two wire 4-20mA analog output, transmitter mounted inside RTD or TC Head.



Features:

- Transfer various kinds of input signal into 4-20mA
- output Input: RTD, Thermocouple
- Configuration by PC
- 2 kinds of resistance thermometer input (RTD) 8 kinds of thermocouple (TC) Built-in cold junction compensation

Output Signal	: 4 to 20mA
Max. Load	: (V Power Supply-7.5V)/ 0.022A Current Output
Measurement	: Temp.-Linearity/ Resistance-Linearity/ Voltage-Linearity
Circuit Limit	: <= 22mA
Response Time	: <= 1 Sec.
Saturation Current	: Low Side-3.9mA; High Side-20.5mA
Alarm Current	: Sensor turn off output is 3.9mA or 22mA (except TC)
Accuracy	: 0.1% FS
Measuring Accuracy	: is related to the measuring range
Power Supply	: 12V~40V DC
Working Temperature	: -40°C ~ +85°C
Storage Temperature	: -40°C ~ +100°C
Earthquake Resistance	: 4g/2 to 150Hz
Protection	: IP00; IP66 (Mounted)

TT2 2 Wire Zero/Span Temperature Transmitter

Shriji Instruments offer two wire temperature transmitters which accept variable resistance as the input and provides dc current output (4-20) mA proportional to resistance value and in turn proportional to calibrated scale of Process Parameters. These transmitters are extensively used by Sensors. Series are loop powered transmitters and required no power supply as it powered by current drawn from the current loop itself.



Specification:

Input Range	: variable resistance in the range off 1000 to 2000 Ohms : Subject to specified input (Users should have specified specific Range)
Output Accuracy	: (4-20) mA Two wire and Loop Powered : Better than $\pm 0.25\%$ of the calibrated range or better including linearity, Hysteresis, and compensation error.
Calibration	: On site using ZERO / SPAN presets (user settable using small screw driver) Zero Adjustment: $\pm 25\%$ of the range (20 Turns) Span Adjustment: $\pm 25\%$ of the range (20 Turns)
Loop supply	: (Vs) 24VDC nominal (12 to 36) VDC
Loop Resistance	: 600 Ohms @ 24VDC (loop supply dependent)
Max. Load Resistance	: $RL_{Max} = (Vs - 12V) / 20\text{ mA}$
Burn Out Detection	: Output shall saturate $> 20\text{mA}$ (max. 25mA @ 24VDC loop supply)
Loop Status	: The built in Red LED indicates the continuity status of the loop. LED will not glow if the current loop is OPEN.

Applications : OEM Product for Sensor's Manufacturer.

Features : Accepts variable linear resistance
Two wire design (supply & output on the same lines)
(4 to 20mA) Proportional to Linear Variation of Resistance