

Universal integrated temperature transmitter for thermal resistance (RTD), resistance (Ω), thermocouple (TC), voltage (mV) signal input, intelligent installation inside the sensor.

FEATURES

- ✓ High cost performance
- ✓ Configuration by PDA handheld device or PC through HART protocol Configuration via USB communication
- ✓ Electrical isolation 2000VAC
- ✓ High precision
- ✓ Two - wire 4 ~ 20mA analog output
- ✓ Intelligent technology universal input

TECHNICAL PARAMETERS

- ✓ **Output Signal** : Analog 4 ~ 20mA
- ✓ **Power Supply Voltage** : $U = 7.5V \sim 45V$
- ✓ **Load** : Max. (V power -7.5V) / 0.022A (current output)
- ✓ **Alarm Current** : Lower than the upper limit of measurement, output Drop to 3.8mA above the upper limit of measurement, output rise to 20.5mA
- ✓ **Sensor Damage** : Sensor open circuit output is 3.6mA or 22mA
- ✓ **Input Current** : $\leq 3.6mA$
- ✓ **Current Limit** : $\leq 22mA$
- ✓ **Ambient Temperature** : $-40 \sim +85^{\circ}C$
- ✓ **Storage Temperature** : $-40 \sim +100^{\circ}C$
- ✓ **Protection Level** : IP00, IP66 (installation)
- ✓ **Cold Junction Compensation** : Built-in cold junction compensation
- ✓ **Operation Method** : Online adjustment through PC programming or PDA handheld device
- ✓ **Accuracy Level** : $\leq 0.2K$ or 0.08 %
- ✓ **Measurement Variable** : Temperature (temperature linear transmission), resistance and voltage
- ✓ **Measurement Range** : The measurement range of the transmitter varies depending on the sens or connection mode and input signal
- ✓ **Voltage Influence** : Negligible
- ✓ **Ambient Temperature Effect** : Negligible (temperature drift)
- ✓ **Condensation** : Allow
- ✓ *** Shock Resistance** : 4G / 2 ~ 150Hz
- ✓ **Installation Angle** : Unlimited



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INPUT TYPE

INPUT	TYPE	MEASUREMENT RANGES	MIN. MEAS. RANGES
RTD	Pt100	-200°C to 850°C	10K
	Pt500, Pt1000	-200°C to 250°C	10K
	Cu50, Cu100	-50°C to 150°C	10K
	Ni100	-60°C to 180°C	10K
	Ni500	-60°C to 180Ω°C	10K
	Ni1000	-60°C to 150°C	10K
Resistance Transmitter	Resistance (Ω)	0Ω to 400Ω	10Ω
		0Ω to 2000Ω	20Ω
Connection Type : 2-, 3- or 4-wire connection			
THERMOCOUPLE	B	0°C to 1820°C	500K
	E	-270°C to 1000°C	50K
	J	-210°C to 1200°C	50K
	K	-270°C to 1372°C	50K
	N	-270°C to 1300°C	50K
	R	-50°C to 1768°C	500K
	S	-50°C to 1768°C	500K
	T	-270°C to 400°C	50K
Voltage Transmitters(mV)	MilliVolt Transmitter(mV)	-10mV to 75mV	5mV
		-100mV to 100mV	5mV
		-100mV to 500mV	6mV
		-100mV to 2000mV	20mV

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