

# 2-wire Temperature Transmitter (In-head)

## FEATURE

- Microprocessor Based, T/C, RTD, mV selective Input as following table
- Suitable for mounting inside of Probe Head, less the Electromagnetic disturb
- Available option for the "TX-cable" with free software for Configure the selective Input
- CE Approval

## SPECIFICATION

Sensor Input	Type / Description	Accuracy (Max. Range)
Thermocouple	Type J / K / R / S / T / N / E, Impedance: 1MΩ	< 0.3%
Pt100	2 or 3-wire connection (Connect terminal 2 & 3 for 2-wire Sensor)	0.2%
Voltage	0 ~ 50mVdc, Impedance: 1MΩ	0.2%

Response Time: <100ms.

Output: 2-wire 4~20mA, linear with respect to the measured temperature

Resolution: 0.004mA (12bits)

Power Supply: 12~35Vdc across the transmitter

Max. Load (RL):  $RL(max.) = (Vdc-12) / 0.02 [\Omega]$  Vdc = Power supply voltage

Operation Temperature & Humidity: -40 to 85°C, 0 to 90% RH

Electromagnetic compatibility: EN 50081-2, EN 50082-2

Housing: ABS plastic (Dimension: Dia.44mm x Height 25mm)

No isolation between the sensor and the 4~20mA loop.

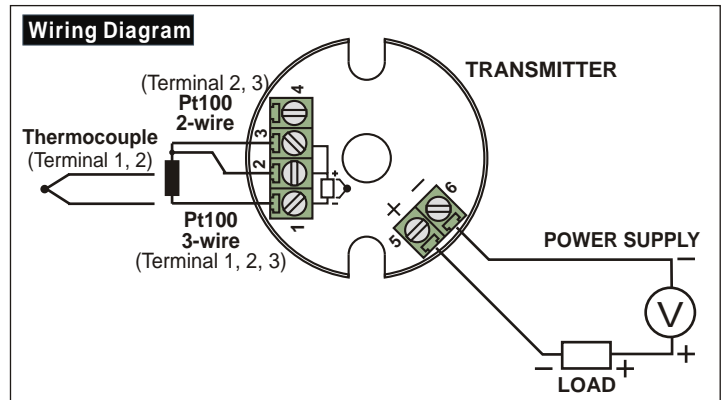
Internal protection against polarity inversion, cold junction compensation for the thermocouple.



## ORDER CODE

**TX -**      - Required Range

CODE	Sensor Type / Range	Min. Measurement span	Required Range
K	Thermocouple K / 0~1370°C	100°C	
J	Thermocouple J / 0~760°C	100°C	
R	Thermocouple R / 0~1760°C	400°C	
S	Thermocouple S / 0~1760°C	400°C	
T	Thermocouple T / 0~400°C	100°C	
N	Thermocouple N / 0~1300°C	100°C	
E	Thermocouple E / 0~720°C	100°C	
D	Pt100 / -200~530°C	40°C	
L	Voltage / 0~50mV	5mV	



# RTD 2-wire/3-wire Transmitter (In-head)

ORDER CODE: **ATR -**     

Code	Temperature Range
1	0 ~ 50°C
2	0 ~ 100°C
3	0 ~ 150°C
4	0 ~ 200°C
5	-50 ~ 50°C
S	Specified

## SPECIFICATION

Accuracy: ±0.1% F.S. (At 23°C)

Input Range: -100 ~ 600°C

Output: 4~20mA, linear with respect to the measured temperature

Power Supply: 10~30Vdc

Max. Load (RL):  $RL(max.) = (Vdc-10) \times 50\Omega$  Vdc = Power supply voltage

Limited output current: under 25mA

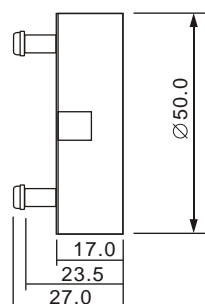
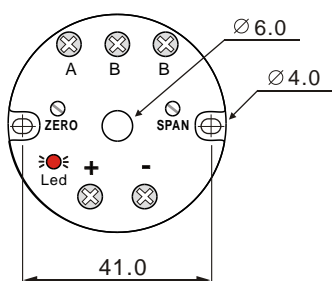
Temp. Coefficient: ±0.02% /°C

Operation Temperature & Humidity: -5 to 70°C, 0 to 90% RH

Zero Adjustment: Standard is 0°C; (specified -100 to 200°C)

Span Adjustment

Dimension: (mm)



*With LED Indication and Upscale burn-out Protection*

