

Temperature Sensor NCTC3-K1

The NCTC3-K1 utilizes a Type K sheathed thermocouple as the sensing element, offering wide measurement range and high accuracy. It features threaded mounting with a floating sleeve rotary structure, ensuring strong vibration resistance, reliable sealing, and easy installation. This sensor is specially designed for gas temperature detection at the inlet and outlet of various turbine systems.

Parameters

Operating Parameters

- Measured medium: Gas
- Temperature range: $-40^{\circ}\text{C} \sim +1000^{\circ}\text{C}$
- Accuracy: $\pm 1.1^{\circ}\text{C}$ or $\pm 0.4\% \times T$ (whichever is greater)
- Output signal: $-1.527\text{mV} \sim 41.267\text{mV}$
- Connector operating temperature: $-40^{\circ}\text{C} \sim +60^{\circ}\text{C}$
- Insulation resistance: $\geq 100 \text{ M}\Omega @ 250\text{VDC}$
- Withstand voltage: $1500\text{VDC}/1\text{min}$ (leakage current $\leq 5 \text{ mA}$)
 $700\text{VAC}/60\text{Hz}/1\text{min}$ (no breakdown)

General Data

- Insertion depth: 35mm
- Material: SUS316 dual-layer bent tube
SUS316 conical sleeve & hex nut
H62 brass sealing washer
- Sealing method: Brass washer compression seal

