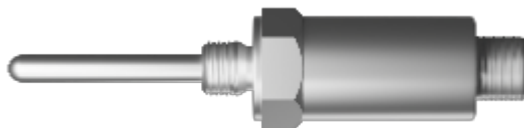


Platinum Temperature Transmitter



◆ Product Introduction

A platinum temperature transmitter is a temperature device that converts temperature signals into industrially standardized output signals (such as 4–20 mA). It mainly consists of two components: a sensor and a signal converter. The sensor component is a PT100 resistance thermometer, which exhibits a resistance change in response to temperature variations. This resistance change is processed by a dedicated unit to generate a differential voltage signal. After undergoing amplification, isolation, linear correction, and other processing steps, the signal is converted into a standard analog or digital signal that corresponds to the measured temperature range. The resulting electrical signal has a linear relationship with the measured temperature value, thereby enabling accurate temperature measurement and control.

◆ Features

1. Vibration resistance, impact resistance
2. High precision, fast response
3. High long-term stability
4. High reliability, long lifespan
5. Wide measurement range

◆ Applications

1. Data centers, coolant distribution units, energy storage systems, liquid cooling module
2. Liquid-cooled megawatt charging stations and the electric power industry
3. Industrial automation systems, HVAC
4. Temperature measurement inside indoor pipelines or chambers, and other scenarios requiring high precision or operating in harsh environments
5. Platinum temperature transmitter