

TEMPERATURE MEASUREMENT

FDWR Armored Thermocouple

Product Overview

FDWZ series armored thermocouples use homogeneous conductors (A electrode and B electrode) to form a closed loop. When the two contacts are at different temperatures, current flows through the loop, and there is a thermal electromotive force between the two contacts. The electromotive force is related to the average temperature. The material of the conductor is related to the temperature difference between the two ends. Thermocouples use this principle to measure temperature. Usually used in conjunction with display instruments, recording instruments, computers, etc., to directly measure the surface temperature of gases, liquids and solids in the range of 0° C to 1700° C in various production processes.



Main Feature

◆ Large measuring range and fast response
◆ High mechanical strength, can be used with vibration, low temperature and high temperature
◆ Simple installation, easy replacement and long service life
◆ Small outer diameter, rapid temperature response

Technical Index

Item	Technical Parameters
Standard	GB/T18404 - 2001, IEC61515:1995, JB/T8205 - 1999
Measuring Range	0°C ~ 1700°C
Accuracy	B Grade
Graduation	K、E、S、B
Insulation Resistance	≥ 100MΩ (15°C ~ 35°C , RH ≤ 80%)
Probe Diameter	φ 6, φ 12, φ 16, etc.
Probe Material	SS 304, SS316, HG3039, Corundum tube, silicon carbide tube, etc.
Wiring	Waterproof, explosion-proof, etc.
Installation	Fixed thread type, flange type, etc.

Dimensions	Protection Tube Drawing