

TEMPERATURE MEASUREMENT

FDWZ Armored Thermal Resistance

Product Overview

FDWZ series armored thermal resistance measures the temperature by using the characteristic that the resistance of the material changes with the temperature change. The heated part (temperature sensing element) of the thermal resistance is evenly wound on a skeleton made of insulating material with thin metal wires. When there is a temperature gradient in the measured medium, the measured temperature is the average temperature in the medium layer within the range where the temperature sensing element is located. Usually with display instruments, recording instruments, computers, etc.



Main Feature

◆ Fast response time, reducing dynamic error
◆ High mechanical strength, good pressure resistance
◆ Flexible installation
◆ High performance temperature sensing element, reliable and stable
◆ Large measuring range

Technical Index

Item	Technical Parameters
Standard	GB/T30121-2013
Measuring Range	-200℃ ~ 600℃
Accuracy	A Grade (-50℃ ~ 400℃) , B Grade (-200℃ ~ 200℃ / -50℃ ~ 600℃)
Response time	$\phi 5 \leq 8s$ 、 $\phi 8 \leq 18s$ 、 $\phi 12 \leq 30s$
Insulation Resistance	$\geq 100M\Omega$ (15℃ ~ 35℃ , RH $\leq 80\%$)
Probe Length	100mm ~ 10000mm
Probe Diameter	$\phi 3$ 、 $\phi 4$ 、 $\phi 6$ 、 $\phi 12$ 、 $\phi 16$
Probe Material	SS304,SS316,HG3039,SS with PTFE,etc.
Wiring	GDM,waterproof,explosion-proof,etc.
Installation Method	Fixed thread type,flange type,etc.

Dimensions	Electrical interface and wiring