Temperature Transmitter
Data Sheet

SBWZ Serial Temperature Transmitter

Introduction

- SBWR Serial thermocouple temperature transmitter and SBWZ serial RTD temperature transmitter is a spot mounted temperature transmission unit in DDZ-S serial instruments and meters .

- It adopts the two-wire transmission method (the power input and the signal output are two communal conductors).

- There is a linear 4~20m current signal between the output and the measured temperatures.

- The transmitter may be installed inside the terminal box of the thermocouple and the thermal resistance to form an integral structure,and also independently mounted in the instrument panel as a change-over unit.

- Application: To be a new generation thermometric meter, it is widely applied in the industrial and scientific research fields such as petroleum, chemicals, textile, metallurgy, electro-machinery, electric force, aviation, food, processing, pharmaceutical engineering, etc for the purpose of automated temperature testing, transmitting and controlling.

Features:

- ◆ Can be directly installed in the sensor terminal box
- ◆ Accurate signal can be transmitted far way(Max 1000M)
- ◆ High accuracy with long-term stability, maintenance-free

Technical Characteristics

Model	SBWZ
Input Siginal	Thermocouple: K E J B S T N RTD: PT100 CU50 CU100
Output Siginal	4 ～ 20mA DC
Working Voltage	Related voltage: 24VDC ± 10% (Ordinary12V~35V ，Intelligent 12V~45V）
Intrinsic Error	0.5%FS, 0.2%FS (Intelligent)
Mode Of Connection	Two-wire system, three-wire system, four-wire system
Allowed Load Resistance	500Ω(24VDC)
Ultimate Load Resistance	R(max)=50(Vmin-12)

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Measuring Range	-200～1800℃
Ratio of Environment Effects	δ≤0.05%/°C
Work Environment	Temperature: -25-+80°C(Ordinary) -25-+70°C(Digit Display) -25-+75°C(Intelligent)
	Relative Humidity:5%-95%
	Mechanical Vibration f≤50Hz, swing≤0.15mm
	Non-corrosive gas or similar environment
Pipe Spec	Stainless steel pipe diameter:Φ4 、Φ6 、Φ8 、Φ10 、Φ12 、Φ14 、Φ16 Pipe Length: 30mm ～ 100mm ～ 200mm, or customized length available
Case	Blue Φ36 × 16 mm

Connection