

# Temperature Transmitter Data Sheet

## SBWZ Intelligent 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 4~20mA 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



RoHS

### Technical Characteristics

Model	SBWZ-J-Type
Input Signal	J-type Thermocouple
Output Signal	4 ~ 20mA DC
Working Voltage	12V~35V DC
Intrinsic Error	±0.2%FS (Intelligent )
Mode Of Connection	Two-wire system
Overall Power Consumption	≤3.88mA
Allowed Load Resistance	500Ω
Measuring Range	0~700°C

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Compensation Accuracy	$\pm 1.5^{\circ}\text{C}$
Sampling Rate	5 times/Second
Temperature Drift	5 0 P P m / $^{\circ}\text{C}$
Working Environment	Temperature: $-10\text{-}+50^{\circ}\text{C}$
	Relative Humidity: $\leq 85\%\text{RH}$
	Non-corrosive gas or similar environment
Case	Blue $\Phi 43 \times 19 \text{ mm}$
Installation	M4 screw mounting

## Connection

