

BT6100

Insertion Type Digital Temperature Transmitter



I. Overview

The BT6100 Insertion Type Digital Temperature Transmitter utilizes an imported temperature sensor and an embedded microprocessor to transmit RS485 standard signal or 4-20mA standard signal. The product features a 316L stainless steel housing with the temperature probe placed at the front end, allowing customization of various



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specifications according to user requirements. It can be used in various temperature measurement applications.

II. Product Features

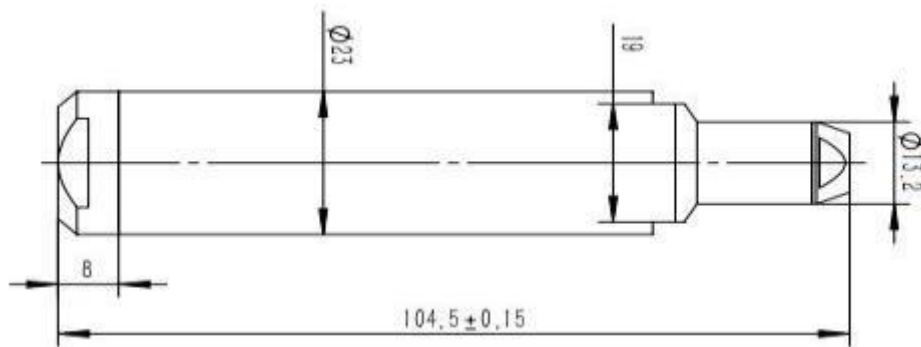
- High accuracy and stability
- RS485 standard MODBUS-RTU protocol
- Power reverse connection protection and surge voltage protection
- Wide power supply range of 5-30V

III. Technical Specifications

Main Performance Parameters	
Accuracy	$\pm 0.1^{\circ}\text{C}$; optional $\pm 0.2^{\circ}\text{C}$
Resolution	0.01°C
Range	$-45 \sim 150^{\circ}\text{C}$
Output Frequency	2Hz
Operating Temperature	$-45 \sim 130^{\circ}\text{C}$
Storage Temperature	$-50 \sim 150^{\circ}\text{C}$
Electrical Characteristics	
Power Supply	24VDC (5~30V)
Communication Interface Protection	Surge voltage (2KV)
Load Capacity	Up to 32 nodes
Output Method	RS485 interface, MODBUS-RTU protocol
Mechanical Characteristics	
Housing Material	304 or 316L stainless steel

Cable Material	PVC or polyurethane
Probe Weight	Approximately 100 grams
Protection Level	IP68

IV. Dimensions



V. Electrical Connection

Serial No.	Cable Color	Definition
1	Red	24V+
2	Blue	RS485+
3	Green	RS485-
4	Yellow	GND