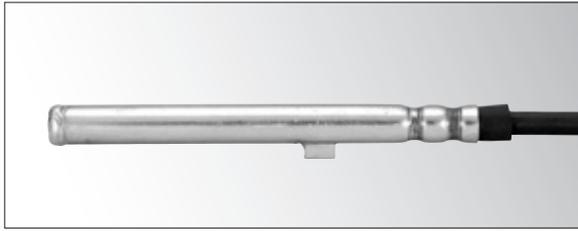


BT-100B

Temperature Transducer

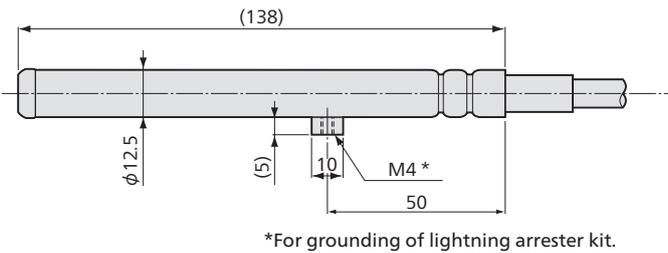


Temperature measurement for many kind of structures

- Resolution as high as 0.01°C with measurement error of ±0.3%
- High water pressure resistance of 200 kPa enables underground embedment or water temperature measurement.

Embedded in concrete or soil, the BT-100B temperature transducer can be used to measure temperature distribution in structures or temperature for compensation of linear expansion coefficient of concrete.

■ Dimensions



● Temperature Measurement ● -30 to 70 °C

Specifications

Performance

Rated Capacity	-30 to 70°C
Measurement Error	±0.3°C (-30 to 70°C)
Output	50 μV/V/°C

Electrical Characteristics

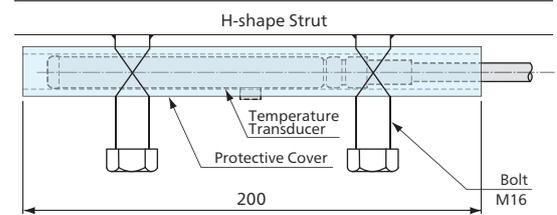
Input Resistance	350 Ω $\begin{smallmatrix} 0.3\% \\ 0\% \end{smallmatrix}$ at 25°C
Output Resistance	350 Ω $\begin{smallmatrix} 0.3\% \\ 0\% \end{smallmatrix}$ at 25°C
Cable	4-conductor (0.5 mm ²) chloroprene cable, 8 mm diameter by 1 m long, bared at the tip

Mechanical Properties

Water Pressure Resistance	200 kPa
Weight	Approx. 120 g

*Models with a water pressure resistance 200 kPa or more can also be manufactured. Please contact us.

■ Application Example for BT-100B and BTS-100AT



BTS-100AT

Small-sized Temperature Transducer



Small-sized Temperature Transducer for model experiment

- Small sized, 5 mm in outer diameter
- Usable only in combination with a measuring instrument compatible with resistance thermometers
- Embedment applications possible for model experiments and short-term measurements.

The BTS-100AT is a temperature transducer using a temperature measuring resistor (Pt100 JIS) which is provided for transducers with a temperature measuring function. A special small-sized design makes the transducer suitable for model experiments.

● Temperature Measurement ● -30 to 70 °C

Specifications

Performance

Rated Capacity	-30 to 70°C
Measurement Error	±0.5°C (-30 to 70°C) (When used in combination with UCAM-65B or UCAM-60B)

Electrical Characteristics

Cable	4-conductor (0.08 mm ²) chloroprene shielded cable, 4 mm diameter by 5 m long, bared at the tip (Shield is not connected to the case.)
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Mechanical Properties

Weight	Approx. 10 g
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■ Dimensions

