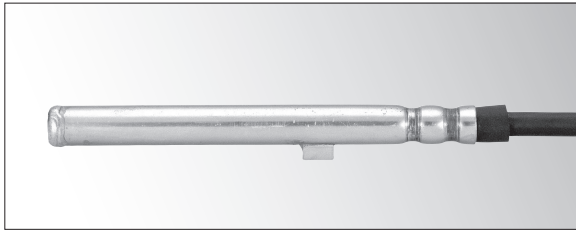


BT-100B

Temperature Transducer

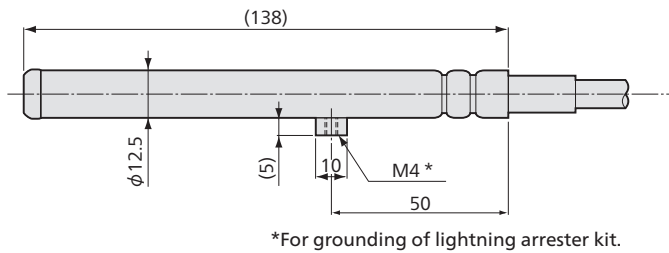


Temperature measurement for many kind of structures

- 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 (100 × 10 ⁻⁶ strain/°C) |

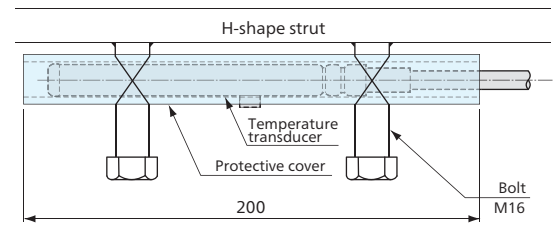
Electrical Characteristics

| | |
|-------------------|--|
| Input Resistance | 350 Ω $\frac{0.3\%}{0\%}$ at 25°C |
| Output Resistance | 350 Ω $\frac{0.3\%}{0\%}$ 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

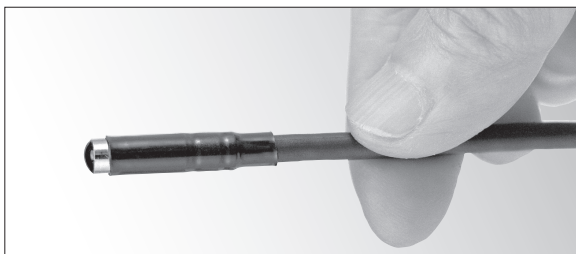
| | |
|---------------------------|---------------|
| Water Pressure Resistance | 200 kPa |
| Weight | Approx. 120 g |

■ 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 wire is not connected to the case.) |
|-------|---|

Mechanical Properties

| | |
|--------|--------------|
| Weight | Approx. 10 g |
|--------|--------------|

■ Dimensions

