

BWL-ET

Water Level Transducer

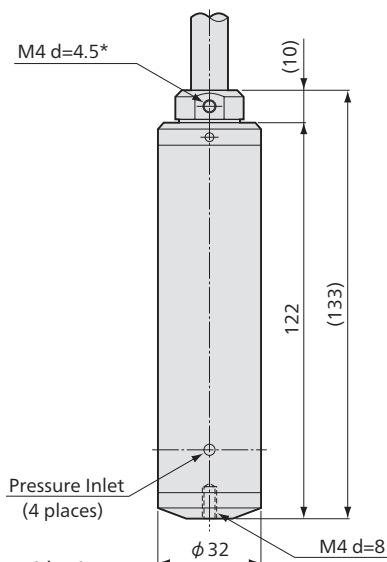


Suitable for measuring underground water levels in landslide areas.

- Stainless steel enclosure ensures excellent corrosion resistance, while a built-in lightning arrester assures safe operation.
- Simultaneous measurement of water level and water temperature
- Easy installation, maintenance and inspection
- Applicable for measurement of underground water levels in landslide areas and water levels of dams, rivers, intake wells and tanks

The BWL-ET series is strain-gage type water level transducers designed to measure changing underground water levels in landslide areas, etc. They do not require any compensation against fluctuations in atmospheric pressure, and thus ensure accurate measurement. A temperature measuring function lets them perform simultaneous measurement of water level and temperature.

■ Dimensions



*For hanging with wire.

- Water Level Measurement
- 10 to 30 m
- With Temperature Measuring Function

Specifications

Performance

● Water Level Measurement	
Rated Capacity	See table below.
Nonlinearity	Within $\pm 0.15\%$ RO
Hysteresis	Within $\pm 0.10\%$ RO
Repeatability	0.05% RO or less
Rated Output	2 mV/V or more
● Temperature Measurement	
Rated Capacity	-20 to 60°C
Measurement Error	$\pm 0.5^\circ\text{C}$ (-20 to 60°C)
(See page 7-32 for Small-sized Temperature Transducer BTS-100AT.)	

Environmental Characteristics

Safe Temperature	-20 to 60°C (Non-freezing)
Compensated Temperature	0 to 50°C (Non-freezing)
Temperature Effect on Zero	Within $\pm 0.01\%$ RO/ $^\circ\text{C}$
Temperature Effect on Output	Within $\pm 0.01\%$ / $^\circ\text{C}$

Electrical Characteristics

Safe Excitation	10 V (Current 28.5 mA)
Recommended Excitation	2 to 6 V (Current 5.7 to 17.1 mA)
Input Resistance	350 Ω $\pm 2\%$
Output Resistance	450 Ω $\pm 2\%$
Cable	4-conductor (0.5 mm ²) capillary-equipped chloroprene shield cable, 11.3 mm diameter, bared at the tip (Shield is not connected to the case.)

Mechanical Properties

Safe Overloads	150%
Weight	Approx. 400 g

Other

Built-in lightning arrester
Atmospheric pressure compensation type

*For use under freezing environment or where the transducer is exposed to corrosive liquid or gases, please contact a Kyowa sales representative.

Models	Rated Capacity (Water Level)	Cable Length
BWL-10MET	10 m	30 m
BWL-20MET	20 m	40 m
BWL-30MET	30 m	50 m

■ Application Example

