

iBar 500L-C

For anti-corrosive & aggressive mediums**Applications:
Level Measurement**

- ✓ Tanks, Vessels, Lakes, Rivers
- ✓ Lift Stations
- ✓ Water Wells
- ✓ Oil, Water, Wastewater, Chemicals
- ✓ Foamy Liquids

iBar 500L-C Ceramic Submersible Level Probe Transmitter

our ceramic submersible level probe is specifically engineered to excel in the most challenging level measurement environments. Its sensor integrates cutting-edge microprocessor technology, incorporating comprehensive linear and temperature error compensation to ensure the utmost precision in measurement outcomes. The probe features advanced condensation-prevention technology through full potting, a secure dual-seal design, and robust, fully welded stainless steel, PVDF, and PP construction options to guarantee long-term stability and enduring airtightness.

The signal transmitting module is fortified with transient voltage resistance protective circuits, enabling consistent operation even in harsh surge voltage conditions. Furthermore, the cable seal is fortified with an intensive cone plug sealing design, ensuring a prolonged operational lifespan under significant mechanical loads during installation and extended use. The iBar 500L-C submersible level transmitter stands out as the optimal solution for meeting the stringent requirements of high-demand level measurement applications.

Benefits

- Support user configuration and meet the requirements of various applications and measuring mediums.
- Linear error and temperature error compensation of sensors to achieve high accuracy.
- Built-in transient voltage protection circuit and optional temperature measuring signal output.
- A fully potting design eliminates condensation, and a dual-seal design ensures permanent air tightness.
- Intensive cable seal to ensure a long working life under large mechanical load conditions.
- Laser welding isolated membrane technology to assure durability.
- Various sensor technologies are optional to satisfy the application of viscous and acid-base occasions.

Specifications

Measuring range	0...+20 bar (0...+290 psi)
Pressure type	Gauge Pressure
Signal output	4-20mA (2-wire) 4-20mA + HART (2-wire) 0.5-4.5VDC (3-wire) Modbus-RTU/RS485 (4-wire)
Accuracy	±0.1% URL, ± 0.5% URL
Stability	±0.2% URL/year
Overload limit	2...30 times of cell range
Process temperature	-10...+70 °C (14...+158 °F)
Power supply	10...30VDC (4...20mA/HART/Modbus only)

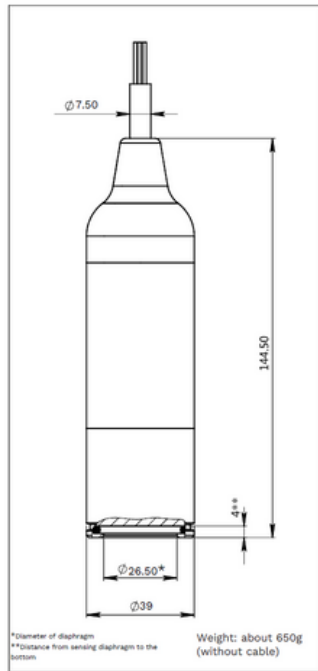
Diaphragm material	Ceramic (AL2O3, content 99.9%), SS316, Hastelloy C
Filling fluid	Silicon oil
Cable type	PUR, PTFE
Cable diameter	7.5 mm
Cable length	5 m, 10 m, customized (10...+100 m)
Probe diameter	39 mm (SS316), 46 mm (PVDF, PP)
Probe material	PVDF, PP, SS316
Area classification	General purpose
Accessories	Counterweight Cable clamp Thread connection to fix at the top NPT 1½" Thread connection to fix at the bottom M22*1 (M) change to M20*1.5 (M)

Electrical Connection

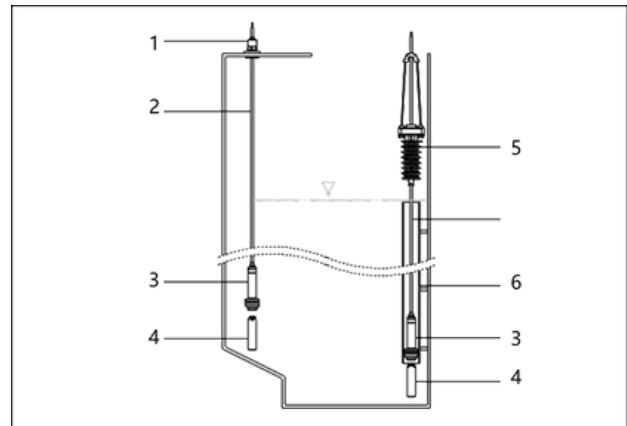
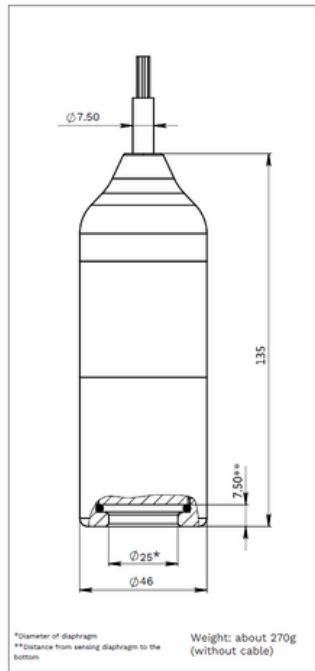


Wire Colour	2-wire	3-wire	4-wire
Red	Voltage +	Voltage +	Voltage +
Black	Voltage -	Voltage -	Voltage -
Blue		Signal +	Signal +
Yellow			Signal -

Standard product drawing and dimension(unit: mm)



Anti-corrosive product drawing and dimension(unit: mm)



- 1.Thread connection
- 2.Cable
- 3.Level probe
- 4.Counter weight
- 5.Cable clamp
- 6.Protective sleeve

For more info and application review,
contact us



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