

CLP 2400

**Applications:**
Level Measurement

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

CLP 2400 Submersible Level Probe Transmitter

The level probe works on the principle of pressure measurement. The measuring cell of the pressure sensor detects slight changes in hydrostatic pressure exerted on the cell, the pressure increasing or decreasing depending on the filling height of the fluid. The acting pressure on the diaphragm is converted into an output electrical signal. The height of the fluid is directly proportional to pressure and, hence, level measurement.

The hydrostatic level measurement is completely unaffected by the vessel's shape; it just measures the level by the weight of the liquid column above it. If the liquid and its specific gravity are known, the pressure measurement can be calculated.

Benefits

- ✓ Most advanced micro-processor technology with linear error compensation and temperature error compensation to assure the highest accuracy
- ✓ Full potting probe, condensation-preventing technology
- ✓ Dual-seal design and full welding technology with solid SS body to assure long-term stability and permanent air tightness
- ✓ Voltage surge protection
- ✓ Cone plug sealing design to ensure a long working life even under large mechanical load conditions

Specifications

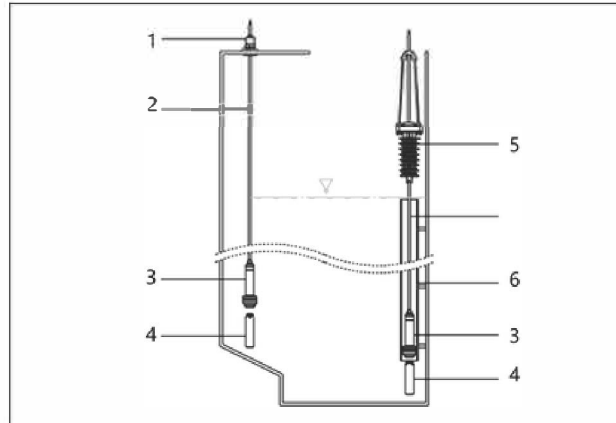
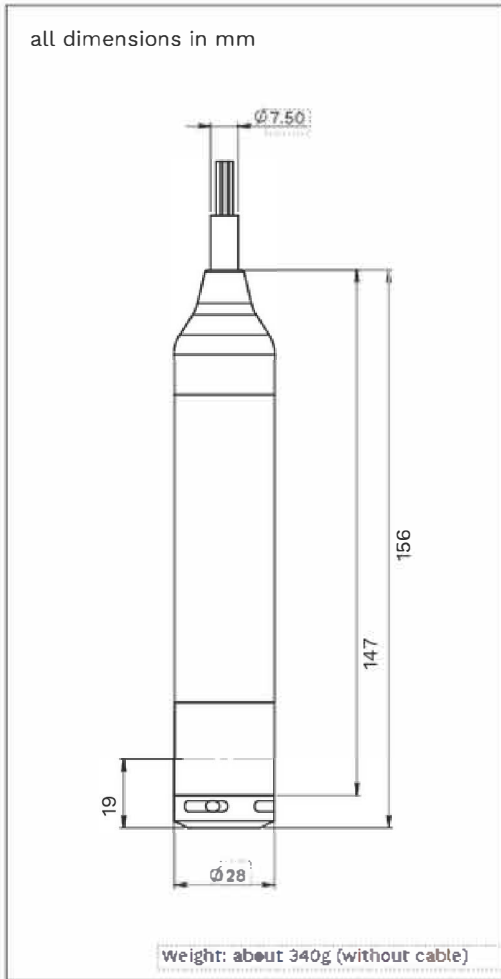
Measuring range	0...+20 bar (0...+290 psi)
Pressure type	Gauge Pressure
Signal output	4-20mA (2-wire) 4-20mA + HART (2-wire) 0.5-4.5VDC (3-wire) Modbus-RTU/RS485 (4-wire)
Accuracy	±0.1% URL, ± 0.5% URL
Stability	±0.2% URL/year
Overload limit	5...25 times of cell range
Process temperature	-10...+70 °C (14...+158 °F)
Power supply	10...30VDC (4...20mA/HART/Modbus only)

Diaphragm material	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	28 mm
Probe material	SS304, SS316
Area classification	General purpose & Intrinsic safe version
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 -



- 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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