

Immersion sensor for Open Channel Flow



- **Reliable and accurate measurement**
Not effected by foam, wind or turbulent water surfaces. A ventilated cable compensates atmospheric pressure changes
- **Accurate and stable output signal**
Digital electronics, communication through RS485 to central unit
- **Easy to use**
Easy to fit the bracket in a slide rail mounting
- **Wide measuring range**
The sensor is integrated in a 316SS housing of 19.7" (0.5 m) or 39.4" (1 m)

Immersion Sensor FLX

to measure flow as a function of liquid depth in open channels. Two sensors can be connected to the same **BB2** central unit, so flow can be measured in two types of flumes/weirs simultaneously. Actual flow rate is presented continuously on a display. If overflow function is selected, then the number of overflows is indicated on the display.

The sensor is based on digital electronics with RS485 communication to the central unit. The sensor is pre-calibrated for quick start-up. Two sensors in the X-series can be connected to a single **BB2** box, which provides two 4-20 mA outputs. The **BB2** box is built with the ability to add an interface board that allows connection to a fieldbus.

Technical Data

Measuring range 0.5 m (0 – 19.7”) or 1 m (0 – 39.4”)

Types of Measuring Channels Thompson (V-notch), Rectangular weir, Rectangular weir, Cipoletti, Sutro, Palmer & Bowlus, Parshall, Rectangular Venturi, U-shaped Venturi.

Connection 5 m (16.5’) Hytrel cable with air tube to a junction box and a 10 m (33’) polyurethane cable connected to the BB2 with 24V power supply and RS485 communication.

Unlinear < 0.3% FS (max)
0.2% FS (nominal)

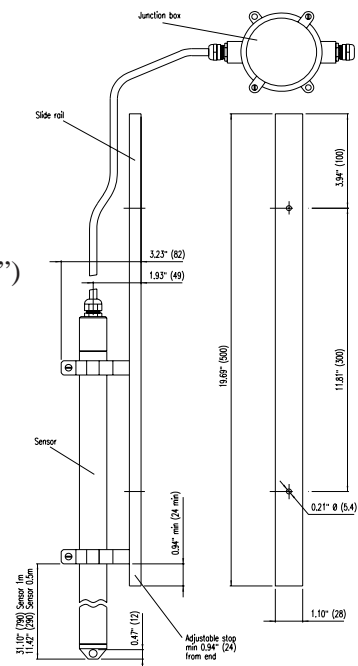
Temperatur Range 0 ... +60°C (32...140°F)

Dimensions Ø28 x 580 mm (Ø1.1/8” x 23”) or x 1080 mm (x 43”)

Material Housing 316SS
Membrane cover and top PVC

Enclosure IP 65 (NEMA 4X)

Option Slide rail mounting 28 adjustable 230 mm (0.9”) in height.



Cerlic's product line contains sensors for measuring and monitoring your process. Our instruments are used in municipal waste water & water treatment plants, industrial and pulp & paper process control. The development of our BB2 product line is the result of increasing demand for instrumentation that is reliable, accurate and durable.



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