

Immersion sensor for Open Channel Flow



- **Reliable and accurate measurement**
Not effected by foam, wind or bouncing liquid surfaces.
Ventilated cable compensates for atmospheric pressure changes
Does not drift with time
- **Accurate and stable output signal**
New digital electronics, RS485 communication to BB2 control box
- **Easy to use**
New SS slide rail assembly for easy installation and servicing of FLX
- **Wide measuring range**
0.1" measuring increments up to 39.4"
316S housing for sensor

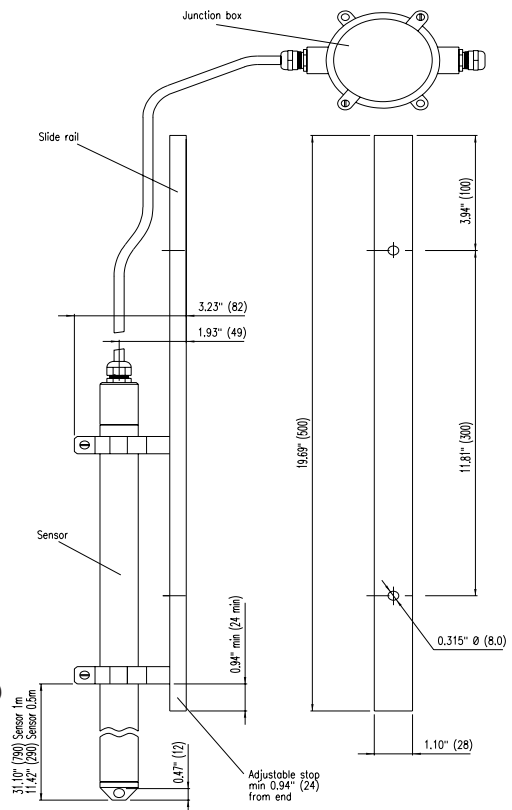
FLX Immersion Sensor

to measure flow as a function of liquid depth in open channels. Two FLX sensors (or other X-series sensors) can be connected to a single **BB2** control box, so flow can be measured in two types of flumes/weirs simultaneously. Actual flow is presented continuously on the display. Liquid height and totalized flow are also available. If overflow function is selected, then the number of

overflows is indicated. The sensor is based on digital RS485 communication to our new **BB2** control box. The **BB2** control box generates two 4-20 mA isolated outputs, and has the ability to add an interface board for future fieldbus communication to support up to four sensors. Sensors are easily connected to the **BB2** control box with simple plug & play connections.

Technical Data

Measuring range	0 – 39.4” (1 m sensor, PIN 11305551) 0 – 19.7” (0.5 m sensor, PIN 11305569)
Types of Measuring	Parshall flume, Rectangular weir, Rectangular contracted weir, Cipoletti, Sutro, Palmer & Bowlus, Rectangular Venturi,
Channels	U-shaped Venturi, Thompson (V-notch)
Connection	16.5’ (5 m) Hytrell cable with vent tube and junction box and a 33’ (10 m) polyurethane cable or total 49’ (15m) cable with M12 connector
Cable length	330 ft (100m), maximum
Accuracy	< 0.3% FS (full scale), maximum 0.2% FS (full scale), normal
Temp Range	+32...+140°F (0 ... +60°C)
Dimensions	0.5 m Sensor - 1.125” Ø x 23” (580mm) 1.0 m Sensor - 1.125” Ø x 43” (1080mm)
Material	316SS - sensor housing PVC - membrane protective cover & cable connector
Enclosure	NEMA 4X (IP 65)
Optional Eqpt	1) SS slide rail mounting bracket (see drawing) 2) 33’ cable and 100’ extension cables.



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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