



Non-contact, bubbler sensor for longterm surface water level monitoring

- **Application**
Eaux de surface, Débitmétrie
- **Measurement range**
Bubbler-in
- **Product Highlights**
Drift-free water level measurement - no pressure sensor or electronics in the water
- **Rango de medición**
0 to 15 m or 0 to 30 m
- **Accuracy**
 ± 3 mm (high accuracy version); ± 5 mm (standard and 30 meter versions)
- **Internal data logger**
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- **Interface**
SDI-12, RS-485 (using SDI-12), or 4 ...20 mA

The OTT CBS is a compact, accurate, and low power bubbler sensor for surface water level monitoring. The OTT CBS meets or exceeds USGS standards for accuracy, and will not drift over time. It features outputs for SDI-12 and 4...20 mA.

Technical Data

OTT CBS - Compact Bubbler Sensor



Water level measurement

Measuring range

| | |
|--|---|
| Version "Standard" and "USGS specification" | 0 ... 15 m (0...50 ft) |
| Version "30 m measuring range" | 0 ... 30 m (0...100 ft) |
| Resolution | 1 mm (0.01 ft) |
| Accuracy | |
| Version "Standard" and "30m measuring range" | ±5 mm |
| Version "USGS specification" | 0 ... 15 ft: ±0.01 % 15 ... 50 ft: ±0.065 % of measurement value or 0.02 ft, whichever is less |
| Units | m, ft, bar, PSI |

Electrical data

| | |
|--------------|--|
| Interfaces | 4 ... 20 mA, SDI-12, SDI-12 via RS-485 |
| Power supply | 10 ... 30 V DC, typ. 12/24 V DC |

Current consumption

| | |
|--------------------------|------------------|
| Measuring interval 1 min | typ. 320 mAh/day |
| Measuring interval 15min | typ. 25 mAh/day |

Housing material ABS

Dimensions L x W x H 165 mm x 205 mm x 115 mm

Weight approx. 1,500 g

Protection class IP43

| | |
|--------------------------|-----------------------------|
| Environmental conditions | |
| Operating temperature | -20 ... +60 °C |
| Storage temperature | - 40 ... +85 °C |
| Relativ air humidity | 10 ... 95 %; not condensing |

Measuring tube inner diameter typ. 2 mm or 4 mm

EMV - limit values According to IEC61326 and EN61326