



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

- **Application**
Surface water, Groundwater
- **Measurement technology**
Bubbler-in
- **Product Highlights**
Drift-free water level measurement - no pressure sensor or electronics in the water
- **Measurement range**
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**
No
- **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 420 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 if 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