

CBS

compact bubbler sensor

- ***± 0.01 ft. water level accuracy***
- ***Sensor will not drift over time***
- ***5-year maintenance interval***
- ***Low power consumption***
- ***Quick iSIC system integration***



The OTT Compact Bubbler Sensor (**CBS**) with EPS 50 Bubble Chamber accurately measures surface water level for new or existing stream gauges. The instrument's compact design and low power consumption make it a great solution for solar charged applications. The sensor will not drift over time and does not require desiccant, eliminating the need for periodic site visits. At a 1 minute sampling interval, the **CBS** has a 5-year expected life before routine maintenance or lubrication is required.

The sensor features an intelligent pumping strategy that compares the previous measurement to the actual pressure at the current measurement. This optimizes pumping time and provides extremely high accuracy that meets and exceeds USGS guidelines of ± 0.01 ft accuracy. All calibration data is stored on the pressure cell, so field replacement can easily be accomplished as needed.

The **CBS** features a plug-and-play interface to NexSens **iSIC** data loggers via SDI-12 digital output. Data collection options include direct-connect, landline phone, cellular, radio, Ethernet, WI-FI, and satellite telemetry. Each **iSIC** data logger simultaneously supports 8 analog inputs & 4 digital inputs for multi-sensor data logging capability. NexSens **iChart** Software is a Windows-based program for interfacing both locally (direct-connect) and remotely (through telemetry) to an **iSIC** data logger or network of data loggers.

NEXSENS
technology

specifications

Measuring Range	0-50 ft (0-15 m)
Accuracy (Standard)	±0.02 ft from 0 to 50 ft
Accuracy (High)	±0.01 ft from 0 to 15 ft
Resolution	0.003 ft / 0.014 psi
Units	ft, psi, m, bar
Measuring Interval	1 min to 24 hr
Maximum Rate of Level Change	3 ft/min
Output	±0.01 ft from 0 to 15 ft
Power Supply	10-30 VDC
Power Consumption	15 min interval - 25 mAh/day; 1 min interval - 320 mAh/day
Compatible Tubing	1/8", 2 mm or 4 mm ID
Temperature Range	-4 to 140 F° (-20 to 60 C°)
Dimensions	6.5" x 8.1" x 4.6" (L x W x H)
Weight	3.3 lbs.



parts list

Part #	Description
63.200.001.9.21	CBS standard accuracy bubbler, for use with OTT tubing
63.200.001.9.22	CBS high accuracy bubbler, for use with OTT tubing
63.200.001.9.24	CBS standard accuracy bubbler, for use with USGS tubing
63.200.001.9.25	CBS high accuracy bubbler, for use with USGS tubing
55.510.065.3.2	EPS 50 bubble chamber with 1" NPT, for use with OTT 2mm ID x 4mm OD tubing
55.510.064.3.2	EPS 50 bubble chamber with 2" NPT, for use with USGS 1/8" ID x 3/8" OD tubing
99.420.050.9.5	Measuring tube, 2mm ID x 4mm OD, 50m
99.420.009.9.5	Measuring tube with Kevlar core, 2mm ID x 4mm OD, 50m
99.420.100.9.5	Measuring tube, 2mm ID x 4mm OD, 100m
99.420.008.9.5	Measuring tube with Kevlar core, 2mm ID x 4mm OD, 100m
iSIC	iSIC data logger
AVSS241608	Stainless steel enclosure, 24" x 16" x 8"
A56	Unistrut mounting kit
A22	20-watt solar power kit for iSIC data loggers, 15' cable
A38	Ground kit
1001	iChart 6 software, licensed per computer



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