

OxiTop BOD Measurement Instrumentation

Pressure sensors for BOD testing and measurements.



- Simple operation
- Non-Toxic
- Stores 100 user-defined routine measurements
- User-friendly on screen guidance for easy operation

Description

OxiTop IS 6, IS 12

Measurement using OxiTop® Biological Oxygen Demand (BOD) Instrumentation is based on pressure measurement in a closed system: microorganisms in the sample consume the oxygen and form CO₂. This is absorbed by NaOH, creating a vacuum, which can be read directly as a measured value in mg/l BOD.

The sample volume being tested regulates the amount of oxygen available for a complete BOD measurement. BOD measurement ranges of up to 4,000 mg/l can be measured using different sample volumes.

The OxiTop® BOD instrumentation heads (green and yellow for differentiation of inflow/outflow) have an AutoTemp function: if the sample temperature is too cold, the start of BOD measurement is automatically delayed (by at least 1 hour) until a constant temperature has been reached.

Apart from the automatic storage of 5 measured values (1 value per day), further measured BOD values can be read at all times during or after the period of 5 days, which permits the tracking of check values or measurements over longer periods. The OxiTop BOD Instrumentation measurement system also offers simple operation, improved controllability, and non-toxicity.

Specifications

Measuring principle: Respirometric (manometric)
Display: 2-digit 7-segment LED, 10 mm
Measured parameter: Digits
Measuring range: 0 to 40 digits (+10 digits for overranging)
Accuracy: ± 0.03 psi (± 2 hPa) or ± 1 digit
Admissible measuring temperature: 68°F ± 1.8°F (20°C ± 1°C)
Admissible sample temperature (when being filled): 59-68°F (15-20°C)
Power supply: Lithium batteries (260 mAh), 2 x type CR 2430 (3V)
Power consumption: Max. 25 mA (during measurement)
Battery run time: ~ 3 years with normal use
Protection class: 3 IEC 1010
Protection system: IP 54 IEC 529
EMC
Emissions: EN 50081-1, FCC Class A
Immunity: EN 50082-2, NAMUR recommendation
Climate class: 2, VDI/VDE 3540
Ambient temperature:
Storage: -13°F to +149°F (-25°C to +65°C)
Operation: 68°F ± 1.8 F (20°C ± 1 C)
Test mark: CE
Dimensions: H: 2.7in, dia. 2.8in (69 mm, dia. 70 mm)
Weight: Approx. 3 oz. (85 g)

Options and Accessories

208214 OxiTop® IS 6

BOD Measurement Instrumentation
 BOD measuring instrument for self-check with 6 measuring units, 115 VAC, 50/60 Hz power plug, and accessories.

208215 OxiTop® IS 12

BOD Measurement Instrumentation
 BOD measuring instrument for self-check with 12 measuring units, 115 VAC, 50/60 Hz power plug, and accessories.

208433 OxiTop® Thermostat Box

Thermostat Box
 OxiTop® BOD Instrumentation thermostat box, for up to 12 OxiTop® units and stirrer base, 115 VAC, 50 Hz.

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