

BOD Measurements

Practical method according to the self-check regulations

Direct digital BOD analyser

OxiTop® IS 6, OxiTop® IS 12

Measurement using OxiTop is based on pressure measurement in a closed system; Microorganisms in the sample consume the oxygen and form CO₂; the CO₂ is absorbed by NaOH, creating a vacuum that can be measured as a mg/l BOD Value.

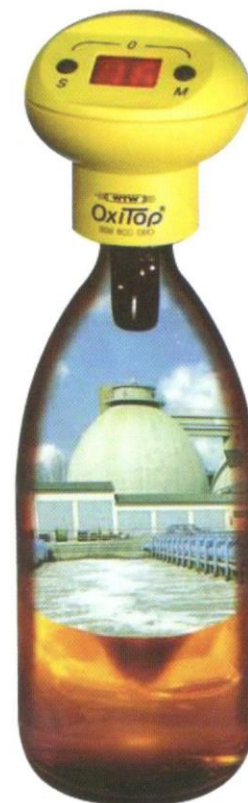
BOD measurement ranges of up to 4,000 mg/l can be measured using different volumes.

The OxiTop® heads (green and yellow for differentiation of inflow/outflow) have an Auto-temperature Function. If the sample temperature is too cold, the start of 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 values can be read at all the times during or after the period of 5 days, which permits the tracking of check values or measurements over longer periods.

Features

- Precise
- Simple Handling
- Push-button measurements possible
- Extendable
- Extremely low running cost
- 5 days memory with automatic data logging



The OxiTop® IS 6, IS 12 complete packages have been assembled so that they contain everything necessary to carry out the measurements.

Technical Data OxiTop Measuring Head

| | |
|-----------------------------|-------------------------------------|
| Measuring Principle | Manometric with pressure sensor |
| BODn Measuring Range | 0 - 4000 mg/L BOD & 0 - 40 digit |
| Accuracy | + 1 digit (corresponds to 3.55 hPa) |
| Pressure range | 500 - 1100 hPa |
| Memory for BOD5 | Automatic data logging everyday |
| Ambient temperature storage | - 25 + 65°C |
| Operations | + 5 + 50°C |



Ordering Information

| Cat. No. | Model | Description |
|-----------|---------------|--|
| 208210WT | OxiTop® IS 6 | Complete package, ready for use, for 6 simultaneous measurements, Inductive Stirring System, for mains operations 230 V, 50/60 Hz and 6 OxiTop® measuring systems, including accessories* |
| 208211WT | OxiTop® IS 12 | Complete package, ready for use, for 12 simultaneous measurements, with IS 12 Inductive Stirring System, 208 211 for mains operations 230 V, 50/60 Hz and 12 OxiTop® measuring systems, including accessories* |
| 209 333WT | OxiTop® PM | System check of OxiTop® systems with calibration tablets for checking 6 measuring units |



OxiTop® Control 6 & Control 12

- Controller-driven
- Automatic sample ID
- Statistical evaluation
- Simultaneous measurement of up to 100 samples

OxiTop® Control system uses software-controlled functions and infrared interface to communicate with the powerful OC 100 controller. This connection enables the simultaneous, group start, management, storage and tracking of 100 measuring heads and tracks results on a large graphic display. Data can be transferred to the PC for evaluation and documentation via the AK-540/B cable (order no. 902 842) and the communication program Achat OC (order no. 208 990).



Controller OC 100 / OC 110

Features:

- Simultaneous sample management with option of grouping up to 100 OxiTop®-C measuring heads
- Data call-up of one parallel sample with statistical evaluation and as individual data
- Automatic calculation and graphical display of BOD value
- Data transfer even through glass doors
- Protocol and documentation of data via Achat OC communication program in combination with a PC
- GLP and AQS with inspection intervals for calibration with the OxiTop® PM calibration tablets

Application Range / Technical Data OxiTop® Control

| | OxiTop® Control OC 100 | OxiTop® Control OC 110 |
|---------------------------|---|---|
| BOD Routine | Individual samples up to 4,000 mg/l | Individual samples up to 4,000 mg/l |
| BOD Standard | Multiple samples with statistical evaluation up to 4,000 mg/l | Multiple samples with statistical evaluation up to 4,000 mg/l |
| BOD Special | - | User-defined volumes, 0.5 h – 99 days, up to 400,000 mg/l BOD |
| Data sets per measurement | 180 ... 360 (depending on duration) | |
| Measurement period | 0.5 h ... 99 days | |
| Power supply | 3 mignon (AA); alkaline 1.5 V | |
| Interface | IR (infrared); RS 232 for communication with PC | |

Ordering Information

| Cat. No. | Description |
|-----------|--|
| 208 201WT | Complete package, ready for use, for 6 simultaneous measurements, with Controller OC 100 and IS 6 Inductive Stirring System, universal power supply 100-240V/50/60Hz and 6 OxiTop®-C measuring systems, including 6 sample bottles, 6 rubber sleeves, 6 stirrer bars and other accessories* |
| 208 204WT | Complete package, ready for use, for 12 simultaneous measurements, with Controller OC 100 and IS12 Inductive Stirring System, universal power supply 100-240V/50/60Hz and 12 OxiTop®-C measuring systems, including 12 sample bottles, 12 rubber sleeves, 12 stirrer bars and other accessories* |

* Requires separate BOD incubator

Manufactured by WTW GmbH, Weilheim, Germany