



Respirometric BOD

secure, easy, convenient

OXITOP®-i

BOD Measurement - Easy and convenient

- No need to convert data - direct input of sample volume
- Most reliable results - display of the curve at the head
- Full information - interim values always available



Oxitop®-i G



Oxitop®-i B

Up-to-date BOD Measurement

The new OxiTop®-i is a modern easy-to-use instrument for BOD measurement (Biochemical Oxygen Demand). The duration can be defined between one and seven days.

The sample volume can be selected in the menu. The conversion into the corresponding BOD value will be automatic, error-free and convenient. A small LED informs about the actual operating condition of the head.

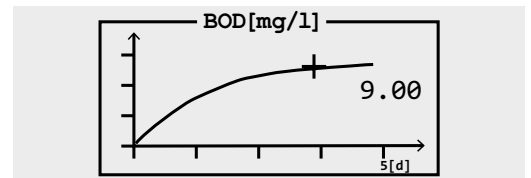
Unmistakable

The heads with two colors in a modern design with adjustable numeric sample ID support the distinction between inlet and outlet.

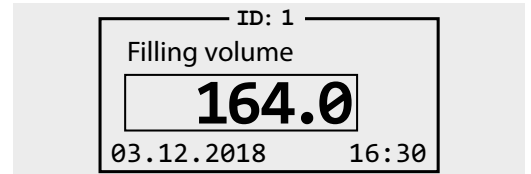
Display

A modern graphic display supports the input and provides multiple information.

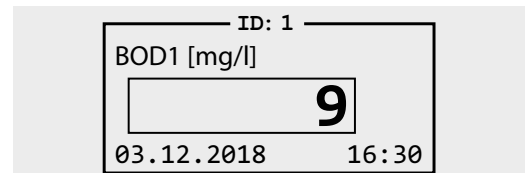
- **Display of the curve**
- **Selection of the sample volume**
- **Call-up of interim values**



Head with curve representation: BOD curve after 5 days



Sample volume



Current BOD value

Set

For OxiTop® sets including stirring platforms and accessories are available.

- 6 respectively 12 measuring places
- Inductive stirring platforms with program controlled operation
- Two overflow measuring flasks for inlet and outlet measurement
- Including CO₂ absorbant and nitrification inhibitor

Accessories

A routine supports in each head a testing of the pressure measurement with the OxiTop® PT.

Our new thermocabinets provide the optimum incubation, please order our flyer „Provide the right Temperature ...
... WITH THERMOSTATIC CABINETS FOR OxiTop®“ Order number 999253US



OxiTop® PT

Technical Specifications

Model	OxiTop®-i G resp. OxiTop®-i B
Pressure range (hPa)	500 to 1250
Selectable duration (days)	1 to 7
Selectable sample volumes (ml)	22.7; 43.5; 97.0 ; 164 ; 250 ; 365 ; 432
BOD measuring range	0 to 4000 mg/l
Display	LCD graphic, backlit, menu controlled
Indicator LED	RGB
Battery	1 x CR 2450

Ordering information

Model	Description	Order No.
OxiTop®-i IS 6	BOD instrument for self-check with 6 measuring units, with direct display of the BOD value at the measuring head, universal power supply 100 to 240 VAC, 50/60 Hz; accessories.	208260
OxiTop®-i IS 12	BOD instrument for self-check with 12 measuring units, with direct display of the BOD value at the measuring head, universal power supply 100 to 240 VAC, 50/60 Hz; accessories.	208262
OxiTop®-i SET 2	SET for 2 measuring units, complete with 2 OxiTop®-i measuring heads (1 x blue, 1 x grey), including 2 sample bottles PF600, 2 rubber sleeves GK 600 and 2 magnetic stirring bars RST 600.	208264
OxiTop®-i SET 6	SET for 6 measuring units, complete with 6 OxiTop®-i measuring heads (3 x blue, 3 x grey), including 6 sample bottles PF600, 6 rubber sleeves GK 600 and 6 magnetic stirring bars RST 600.	208266
OxiTop®-i G	OxiTop®-i measuring head (grey), menu-operated, with backlit graphic LCD, control LED, operating buttons, for direct BOD readings, volume pre-selection, measurement duration between 1 and 7 days selectable, display of measuring curve, display of current readings.	208270
OxiTop®-i B	OxiTop®-i measuring head (blue), menu-operated, with backlit graphic LCD, control LED, operating buttons, for direct BOD readings, volume pre-selection, measurement duration between 1 and 7 days selectable, display of measuring curve, display of current readings.	208272
OxiTop®-i 2	2 OxiTop®-i measuring heads (blue and grey), menu-operated, with backlit graphic LCD, control LED, operating buttons, for direct BOD readings, volume pre-selection, measurement duration between 1 and 7 days selectable, display of measuring curve, display of current readings.	208274
OxiTop®-i 6	6 OxiTop®-i measuring heads (3 x blue and 3 x grey), menu-operated, with backlit graphic LCD, control LED, operating buttons, for direct BOD readings, volume pre-selection, measurement duration between 1 and 7 days selectable, display of measuring curve, display of current readings.	208276
OxiTop®-i 12	12 OxiTop®-i measuring heads (6 x blue and 6 x grey), menu-operated, with backlit graphic LCD, control LED, operating buttons, for direct BOD readings, volume pre-selection, measurement duration between 1 and 7 days selectable, display of measuring curve, display of current readings.	208278

Accessories*

OxiTop® PT	Equipment for testing the tightness and functionality of the pressure sensor of OxiTop® measuring heads.	209334
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* for more accessories please see our current price list.



OxiTop[®]-IDS: More than just BOD

BIOCHEMICAL OXYGEN DEMAND, DEGRADATION TESTS, SOIL RESPIRATION, BIOGAS -
COMPREHENSIVE AND VERSATILE



a xylem brand

Simply Heads

OxiTop®-IDS for all applications of respirometric measurements

- BOD (Biochemical Oxygen Demand)
- Extended BOD measurement up to 400 000 mg/l for industrial waste water plants
- Soil respiration
- Microbiological activity measurement
- Biogas determination
- Various degradation tests, e.g. plastic in sea water

OxiTop®-IDS: BOD and more

The new OxiTop®-IDS is a modern measuring instrument for all kinds of respirometric studies. Regardless whether aerobic or anaerobic examinations, because of its versatility the OxiTop®-IDS is suited for both. All heads can be used independently from any meter for normal BOD measurements between one and seven days.



Oxitop®-IDS For all applications
except biogas



Oxitop®-IDS/B for all applications
including biogas





OxiTop® goes IDS

OxiTop®, a new IDS family member: Simply use the proven Bluetooth® connectivity for convenient operation via one of our multi-parameter instruments Multi 3630 IDS or Multi 3620 IDS. A firmware update for existing Multis is sufficient.

This allows the measurement of pH/mV, conductivity, dissolved oxygen and turbidity, in addition to all OxiTop® applications.

- **Direct calculation of all results in the meter**
- **Representation of curves for monitoring**
- **Parallel measurement of different examinations and methods**
- **Export to data acquisition programs**

Additional information about the Multi 3620 IDS and 3630 IDS multi-parameter instruments on page 6

Display

A modern graphic display supports parameter input and user information

- **Display of curves**
- **Selection of sample volume**
- **Polling of interim results**

Visual control at a glance

Signal LED

A flashing LED signalizes the current status

Blue: Measurement in progress

Green: Measurement terminated

Red: Replacement of battery required, or the pressure in the vessel exceeds a given limit



Complete Sets for Immediate Measurement

Sets are available for the most common applications, including measuring heads, suitable vessels and additional accessories. The appropriate Multi 3620 IDS or 3630 IDS has to be ordered separately. Existing meters can be updated with a firmware update from our website www.wtw.com, additionally a wireless module IDS WLM-M is required.



BOD Standard Measurement for Self-checking according to DIN EN 1899-2 and ASTM 5210 D

- Up to 12 parallel samples in a sample set
- Statistic averaging
- Measurement duration between 0.5 h and 180 days

All measurements with the OxiTop®-IDS can be documented with a data acquisition program (download from www.wtw.com) using the USB interface of the meter.



OxiTop®-IDS Set IS6



BOD Special Mode, developed for BOD in an industrial wastewater treatment plant

- For special applications: Freely selectable vessel, sample volume and incubation temperature.
- BOD measuring range up to 400 000 mg/l – Automatic calculation of dilution as a function of total volume and vessel.



Soil Respiration

according to DIN EN ISO 16072: 2011 09 and respiratory activity of bio-mechanically treated waste.

These sets are suitable for forecast, survey and monitoring of clean-up operations. Another task is the bio-degradation of pesticides, fungicides, insecticides, fertilizers ...

- Measurement in „P“ pressure mode
- Sets with different vessels for adaptation to respiratory activity



OxiTop®-IDS B6M 2.5 for AT4 tests

Aerobic Degradation

according to OECD 301F/DIN EN ISO 9408

These tests quantify the biological degradability of chemicals.

The OxiTop®-IDS A6 is also suited for high dilutions.

- Respirometric degradability tests according to OECD
- Different sets for appropriate adaptation to biological degradability
- Versatile measurement by using the BOD special mode



OxiTop®-IDS A6

Anaerobic degradability with OxiTop®-IDS/B measuring heads

A main application for these sets is the testing of fermentability of biological waste for biogas plants. The yield of methane can be measured in the „P“ pressure mode.

- Convenient and safe operation within an extended pressure range of up to 1500 hPa
- Pressure range excess warning
- Corrosion-proof head even in presence of H₂S
- Special sets including OxiTop®-IDS/B

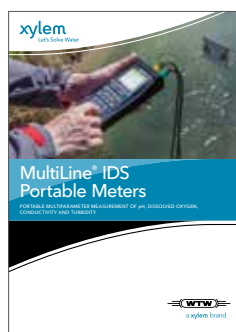


OxiTop®-IDS AN6

Specifications

Model	OxiTop®-IDS resp. OxiTop®-IDS/B
Pressure range (hPa)	OxiTop®-IDS: 500 to 1250 OxiTop®-IDS/B: 500 to 1500
Selectable Measuring Period	0.5 hours to 180 days
Data sets	Up to 360
Interface (via Multi 3620 IDS/3630 IDS)	Bluetooth® LE
Routine BOD without meter	
Selectable sample volume (ml)	22.7 ; 43.5 ; 97.0 ; 164 ; 250 ; 365 ; 432
BOD range	0 to 400 000 mg/l
Display	LCD, backlit, menu-controlled
Signal LED	RGB
Battery	1 x Type LS14250 (1/2 AA Lithium)

Modell	Multi 3620 IDS	Multi 3630 IDS
Universal measuring channels	2	3
Data logger	Manual/time controlled	
Interface	USB-A/Mini USB-B	
Power supply	Plug-in power supply with charging function, 4 NiMH rechargeable batteries (AA Type), USB	
Protection class	IP 67	
Parameters	pH/mV, dissolved oxygen, conductivity, turbidity, BOD standard, BOD Special, pressure	
BOD mode	BOD Standard: clustering and averaging BOD Special: Free selection of vessel size between 50 and 10,000 ml, sample volume (1 ml up to bottle volume), temperature setting 5 to 40 °C, dilution calculation for measuring range up to 400 000 mg/l BOD	
Pressure mode	500 to 1250/1500 hPa (OxiTop®-IDS/B)	



For more information on portable multi-parameter measurement of pH, dissolved oxygen, conductivity and turbidity, please see our flyer MultiLine IDS handhelds, order number 999180US

or on our website
www.WTW.com/en/multiline-ids

System extensions and general accessories for OxiTop® measuring systems

To satisfy the increasing demand and to expand the applications range, matching extension products are available for all systems:

- Single heads and sets of measuring heads of OxiTop®-IDS/B and OxiTop®-IDS
- Complete extension sets, including heads, stirring platforms and accessories
- Stirring platforms
- Sample bottles and vessels



Stirring platforms for all kinds of liquid samples

The maintenance-free and wearless inductive stirring platforms IS 6, IS 12 and IS 6-Var are perfectly suited for our bottles.

Test aids PT and PM

The OxiTop® PT is used for checking the functionality and leak tightness of OxiTop® heads.

OxiTop® PM tablets support the testing of OxiTop® BOD measuring systems with a simulated BOD value.

Compact thermal cabinets

Our new thermal cabinets are well suited for optimum incubation.

Ask for our folder „Provide the right Temperature with Thermostatic cabinets for OxiTop®“ (Order. no. 999253US)

* For additional accessories see our free-of-charge **Product Details** brochure.

Order information

Modell	Description	Order-Nr.
OxiTop®-IDS	OxiTop®-IDS measuring head with Bluetooth® LE technology to be operated with Multi 3620 IDS or Multi 3630 IDS, memory for 360 entries, with graphic LCD and signal LED; can be used for easy BOD measurement without Multi IDS meter.	209700
OxiTop®-IDS/B	Same as 209700, enhanced pressure range up to 1500 hPa, H ₂ S resistant pressure sensor for biogas measurement.	209701
OxiTop®-IDS Set 6	Respirometric measurement system for aerobic operation, also for BOD self-check measurements. 6 measuring places, requires IDS multi-parameter instrument Multi 3620 IDS Set WL or Multi 3630 IDS Set WL; please order separately. Universal power supply, 100-240 VAC, 50/60 Hz; includes stirring platform IS 6. Please order separately CO ₂ absorber NHP 600.	209711
OxiTop®-IDS A6	Respirometric measurement system for aerobic operation, also for BOD self-check measurements, six measuring places. Requires IDS multi-parameter-instrument Multi 3620 IDS Set WL or Multi 3630 IDS Set WL, please order separately. Universal power supply, 100-240 VAC, 50/60 Hz. Includes six sample bottles PF45/1000 (1000 ml), six adapters OxiTop® AD/SK and stirring platform IS 6-Var. Please order separately CO ₂ absorber NHP 600.	209721
OxiTop®-IDS AN6	Respirometric measurement system for anaerobic operation, e.g. biogas, six measuring places. Requires IDS multi-parameter-instrument Multi 3620 IDS Set WL or Multi 3630 IDS Set WL, please order separately. Universal power supply, 100-240 VAC, 50/60 Hz. Accessories: includes six sample bottles MF45/1000 (1000 ml) with two nozzles and septum seal, six adapters OxiTop® AD/SK and stirring platform IS 6-Var. Please order separately CO ₂ absorber NHP 600.	209725
OxiTop®-IDS B6M	Respirometric measurement system for aerobic measurements, six measuring places. Requires IDS multi-parameter-instrument Multi 3620 IDS Set WL or Multi 3630 IDS Set WL, please order separately. For soils with middle to high respiratory activity. Six Vessels MG 1.0 1.0 l, DV/MG lid adapter, DV/MG/KL brackets, GK 600 rubber sleeves and MB 50 beaker (50 ml). Please order separately CO ₂ absorber NHP 600.	209731
OxiTop®-IDS B6M-2.5	Same as 209730, particularly for AT4 testing. Six vessels MG 2.5 2.5 l, DV/MG lid adapter; DV/MG/KL brackets, GK 600 rubber sleeves and MB 50 beaker (50 ml), CO ₂ absorber NKI 600.	209732
Multi 3620 IDS SET WL	Professional, digital multi-parameter instrument for portable measurement, with two universal measuring inputs, wireless-ready, color graphic display, data logger and USB interfaces. Also for operating OxiTop®-IDS. Single instrument with short instruction, CD-ROM and re-chargeable batteries, driver for USB, cable, power supply, armor SM Pro, IDS WLM-M module.	2FD56W
Multi 3630 IDS Set WL	Same as 2FD56W, but with three universal sensor inputs.	2FD57W
IDS WLM-M	Wireless module for IDS Multi instrument	108142
NHP 600	Sodium hydroxide pellets (CO ₂ absorber)	209140



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Provide the right Temperature ...

... WITH THERMOSTATIC CABINETS FOR OxiTop®



a xylem brand

Provide the right temperature

- Incubation conforming to standards
- Suited for BOD, OECD 301F, soil respiration, anaerobic degradation
- Temperature adjustable in steps of 1 K between 10° and 40 °C
- Eco-friendly refrigerant R600a

The new WTW® thermostatic cabinets are available in three sizes and different variants.

Note: The necessary temperature constancy will only be achieved in combination with the samples!



TS 608-G/2i

TS 608/2i

Compact thermostatic cabinet for up to two OxiTop® IS 12 stirring platforms. It is easy to integrate into the working environment and perfectly suited for standard applications. It has two internal plugs for connecting stirring platforms.

TS 608-G/2i

As above but with a door made of insulation glass. Allows visual checking of the OxiTop® heads without opening the door.

TS 608/4i

Thermostatic cabinet for extensive sample processing. Capable of simultaneous measurement of up to four IS 12 stirring platforms. It has four internal plugs for connecting stirring platforms.

TS 608-G/4i

As TS 608/4i but with a door made of insulation glass. Allows visual checking of the OxiTop® heads without opening the door.

TS 1008i

A thermostatic cabinet for particular applications. With extra space for special vessels e.g. biogas or soil respiration measurement. It has four internal plugs for connecting stirring platforms.

Technical data and ordering information

Model	TS 608/2i	TS 608-G/2i	TS 608/4i	TS 608-G/4i	TS 1008i
Order No.	208450	208452	208454	208456	208458
Volumen (l)	180	180	360	360	500
Outer dimensions (mm)					
H	850	850	1640	1640	1640
W	600	600	600	600	750
D	600	600	610	610	730
Inner dimensions (mm)					
H	702	702	1452	1452	1452
W	513	513	470	470	600
D	441	441	440	440	560
Net weight (kg)	34	43	53	69	69
Control range	10 °C ... 40 °C				
Increment	1 K				
Temperature stability	±0,5 K				
Max. power consumption (W)	160	320	380	380	380
Internal sockets	2	2	4	4	4