



# OxiTop<sup>®</sup>-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](http://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](http://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 H<sub>2</sub>S
- Special sets including OxiTop®-IDS/B



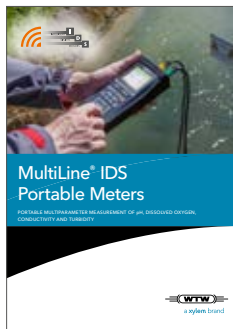
OxiTop®-IDS AN6

## Specifications

<b>Model</b>	<b>OxiTop®-IDS</b> resp. <b>OxiTop®-IDS/B</b>
<b>Pressure range (hPa)</b>	<b>OxiTop®-IDS:</b> 500 to 1250 <b>OxiTop®-IDS/B:</b> 500 to 1500
<b>Selectable Measuring Period</b>	0.5 hours to 180 days
<b>Data sets</b>	Up to 360
<b>Interface</b> (via Multi 3620 IDS/3630 IDS)	Bluetooth® LE

<b>Routine BOD without meter</b>	
<b>Selectable sample volume (ml)</b>	22.7 ; 43.5 ; 97.0 ; 164 ; 250 ; 365 ; 432
<b>BOD range</b>	0 to 400 000 mg/l
<b>Display</b>	LCD, backlit, menu-controlled
<b>Signal LED</b>	RGB
<b>Battery</b>	1 x Type LS14250 (1/2 AA Lithium)

<b>Modell</b>	<b>Multi 3620 IDS</b>	<b>Multi 3630 IDS</b>
<b>Universal measuring channels</b>	2	3
<b>Data logger</b>	Manual/time controlled	
<b>Interface</b>	USB-A/Mini USB-B	
<b>Power supply</b>	Plug-in power supply with charging function, 4 NiMH rechargeable batteries (AA Type), USB	
<b>Protection class</b>	IP 67	
<b>Parameters</b>	pH/mV, dissolved oxygen, conductivity, turbidity, BOD standard, BOD Special, pressure	
<b>BOD mode</b>	<b>BOD Standard:</b> clustering and averaging <b>BOD Special:</b> 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	
<b>Pressure mode</b>	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](http://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 <sub>2</sub> 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 <sub>2</sub> 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 <sub>2</sub> 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 <sub>2</sub> 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 <sub>2</sub> 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 <sub>2</sub> 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 <sub>2</sub> absorber)	209140



Xylem Analytics Germany Sales GmbH & Co. KG, WTW  
 Dr.-Karl-Slevogt-Straße 1  
 82362 Weilheim, Germany  
 Tel +49 881 183-0  
 Fax +49 881 183-420  
 Info.WTW@Xylem.com  
 www.WTW.com