

# BOD EVO SENSOR

**Get reliable results in the simplest way possible with VELP BOD EVO Sensor! An impressive step ahead in BOD analysis, using the respirometric method.**

BOD (Biochemical Oxygen Demand) is a chemical procedure for determining the amount of dissolved oxygen needed by aerobic biological microorganisms in water.

The analysis occurs in a given water sample at certain temperature over a specific period.

It is most commonly expressed in milligrams of oxygen consumed per liter of sample at the constant temperature of 20 °C during 5 days of incubation (BOD<sub>5</sub>) or monitoring the complete oxidation value after a maximum period of 30 days (BOD<sub>ultimate</sub>).

BOD determination is widely used as an indication of the organic quality of water and the degree of organic pollution of water.

## BOD EVO Sensor



2 lithium batteries and KOH trap included

### Wireless Data Transmission

- ▶ 5-day test (BOD<sub>5</sub>): every 30 min / 1 / 2 / 4 / 6 / 8 / 12 / 24 hour(s)
- ▶ Longer tests (e.g. BOD<sub>ultimate</sub>): every 2 / 4 / 6 / 8 / 12 / 24 hours

### Flexible Data Reading directly in BOD value (mg/l)

- ▶ On display: real time when pressing "Start"
- ▶ Through BODSoft™: according to the selected transfer time
- ▶ Different scales: 90, 250, 600 and 999 ppm BOD.  
Higher values can be measured by diluting the sample

## BOD EVO Sensor System includes:



### The compact footprint BOD EVO Stirring Station

- ▶ 6-position constant stirring and 6 BOD EVO Sensor (incl. of bottles, KOH traps and magnetic stir bars)
- ▶ Space saving - only 270 x 185 mm (VELP incubator accommodates up to 30 samples)
- ▶ Remains cold even after continuous use
- ▶ Extremely easy to handle

### The exclusive BOD EVO Wireless DataBox™

facilitates regulatory compliance, continuously monitors and reports parameters

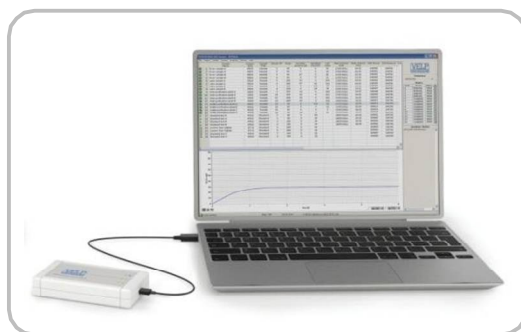
- ▶ Data storage for up to 80 samples per each DataBox™
- ▶ Data transfer even when not connected to PC

### The extremely intuitive BODSoft™ Software

**EACH SENSOR TRANSFERS BOD VALUES TO THE WIRELESS DATABOX™  
>>> NO NEED TO OPEN THE INCUBATOR DOOR FOR DATA TRANSMISSION!**

## BODSoft™

- ▶ Simple and easy to use
- ▶ Simultaneous data processing of many samples
- ▶ Automatic graph creation
- ▶ Active analyses tracking
- ▶ Selectable languages
- ▶ Unlimited database
- ▶ Test report creation
- ▶ Results monitoring and comparison



### BEFORE AND DURING THE ANALYSIS

All the most important info is clearly displayed during analysis, including the status of the sensors' batteries. An intuitive database shows all the completed and active analyses, with a real time graph.

### AFTER THE ANALYSIS

At the end of the analysis, customized test reports can be created along with results comparison. Results are stored into databases and can be exported in .xls, .txt and .csv format to PC or LIMS.

### CONTROL TESTS

VELP offers two accessories to test the accuracy of BOD instruments:

- BOD Sensor Check (A00000135): a quick test to check if the sensor is operating properly.
- Control Test Tablets (A00000136): to check the correct functioning of the system and the calibration of the pressure sensor through a 5-day test.

Features	Description
Construction Material:	Technopolymer
Display:	3-digit LED
Electronic protection degree CEI EN 60529:	IP 54
Supply:	2 lithium batteries per each sensor
BOD EVO Sensor System Dimension (WxHxP):	270x300x185 mm (10.6x11.8x7.3 in)
BOD EVO Sensor System Weight:	2.3 Kg (5.1 lb)
Description	Code No.
BOD EVO Sensor System 6 - 230 V / 50 Hz	S10220146 *
BOD EVO Sensor System 6 - 230 V / 60 Hz	S10230146 *
BOD EVO Sensor System 6 - 115 V / 60 Hz	S10240146 *
BOD EVO Sensor System 6 - 230 V / 50 Hz	S10220156
BOD EVO Sensor System 6 - 230 V / 60 Hz	S10230156
BOD EVO Sensor System 6 - 115 V / 50 Hz	S10240156

\* including Wireless DataBox™, BODSoft™ and cable



Place up to 30 samples in a  
VELP FOC 215E cooled incubator  
...and collect reliable results with  
the Wireless DataBox™ and manage  
them with the exclusive BODSoft™!



# VALERUS

**For contact:**

**16 Amsterdam Str. 1528 Sofia,  
Bulgaria Tel.: +359 2 979 82 11**

Your authorized agent:

**General information and sales support:**

[office@valerus-bg.com](mailto:office@valerus-bg.com)

[export@valerus-bg.com](mailto:export@valerus-bg.com)

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VELP Scientifica srl  
via Stazione 16  
20040 Usmate (Milano) Italy  
Tel +39 039 628811  
Fax +39 039 6288120  
inse@velp.it  
www.velp.com