# **BOD 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 ( $BOD_5$ ) or monitoring the complete oxidation value after a maximum period of 30 days ( $BOD_{ultimate}$ ).

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

#### **BOD Sensor**

VELP SCIENTIFICA Lab Solutions



The BOD Sensor is the mercury-free and reliable solution for BOD determination. **Easy to handle, quick and easy to read**.

A microprocessor-controlled pressure transducer transfers the BOD value directly to the display: **results are displayed directly in mg/l** with **no need for further calculation**.

Manufactured with premium materials, it automatically stores 5 BOD measurements at 24-hour intervals meaning that analysis can continue over the weekend.

The BOD value can also be obtained directly from the display at any time, even after five days.

Measurement is available on 4 different scales - 90, 250, 600 and 999 ppm BOD. Higher values can be measured by diluting the sample.

2 lithium batteries and KOH trap included

### **BOD Sensor Set**



The BOD Sensor Set is **a ready-to-use solution** consisting of a BOD Sensor, a dark glass bottle, an alkali holder to absorb the carbon dioxide and a stirring bar.

This simple configuration was designed to meet the demands of those laboratories that carry out **individual BOD analysis** only.

The dark glass bottle can take sample quantities of from 100 to 400 ml. The BOD Sensor Set is designed for use with the VELP MST magnetic stirrer, sold separately (Code No F203A0160).



The MST magnetic stirrer with ABS structure is a **small, simple and efficient** stirrer.

Extremely useful where a small but **reliable** instrument is needed.

The MST stirrer **remains cold** even after several days of continuous use.



## Constant Commitment to Knowledge Development

#### **BOD Sensor System**



BOD Sensor System is available in 6- or 10-place configuration, including a 6- or 10-position stirring station with BOD Sensors, dark glass bottles, alkali holders for absorbing the carbon dioxide and stirring bars.

The 6-position Stirring Station is **extremely simple to handle** and the VELP stirring quality is guaranteed.

It remains cold even after several days of continuous use.

The **space saving footprint** means that up to 5 Stirring Stations for a total of 30 samples can be placed in a VELP incubator (FOC 215E) simultaneously.

#### **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 Sensor System 6 Dimension (WxHxP):	270x300x185 mm (10.6x11.8x7.3 in)	
BOD Sensor System 6 Weight:	2.3 Kg (5.1 lb)	
BOD Sensor System 10 Dimension (WxHxP):	432x300x165 mm (17.0x11.8x6.5 in)	
BOD Sensor System 10 Weight:	3.0 Kg (6.6 lb)	
Description	Code No.	
BOD Sensor Set	F102B0134	
BOD Sensor System 6 - 230 V / 50 Hz	S10220136	
BOD Sensor System 6 - 230 V / 60 Hz	S10230136	
BOD Sensor System 6 - 115 V / 60 Hz	S10240136	
BOD Sensor System 10 - 230 V / 50 Hz	S10220137	
BOD Sensor System 10 - 230 V / 60 Hz	S10230137	
BOD Sensor System 10 - 115 V / 50 Hz	S10240137	



Place up to 30 samples in a VELP FOC 215E cooled incubator

Your authorized agent:

We reserve the right to make technical alternations We do not assume liability for errors in printing, typing or transmission





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