



# HYDRO-BIOS

## Smart Sampling

### Datasheet Depth Meter ( 450 400 )

#### Depth Meter for Online/Offline Operation

Handy precision pressure transmitter and recorder

This light and handy measuring instrument provides accurate pressure data during operations of plankton nets, water samplers and other sampling equipment in limnological and oceanographic applications. It can be used in online mode with integrated long-distance telemetry via electro-mechanical towing cables as well as in self-contained mode with data recording inside its internal data memory.

The system consists of a titanium pressure housing with integrated sensor, electronics, and rechargeable batteries. A splash-proof hand unit is the link between underwater unit and PC during online operations.

The state-of-the-art electronics, optimised in power consumption, are designed for ambient temperatures from -40°C up to +85°C. The maximum operational depth is 3000 meters. The Depth Meter is delivered with the data acquisition software OceanLab 3, an easy-to-use package for pre-deployment system set-up, real-time data acquisition, data visualisation, storing and export.



## TECHNICAL DETAILS

<b>length</b>	230 mm
<b>diameter</b>	45 mm
<b>weight on air</b>	1 kg
<b>materials</b>	titanium
<b>pressure sensor</b>	0 ... 3000 dbar $\pm$ 0.1% f.s.
<b>data memory</b>	4 MB, sufficient for 290 hours recording
<b>hand unit</b>	Plastic housing, splash-proof (IP 65), battery powered, LC-display 4 x 20 characters, interface for PC (RS-232)
<b>product ID</b>	450 400



## CHARACTERISTICS

- **Combined online/ offline use**
- **Standard depth range 3000 m**
- **Battery operated Underwater Unit, max. voltage of 5 V at the conductor cable**
- **Compact size and low weight**
- **Long-distance FSK-telemetry (>10000 m)**
- **Electronics operate from -40°C up to +85°C**
- **Bi-directional communication**
- **Low power consumption**
- **EC-conformity (CE) EN 50081-1, EN 50082-1**