



# HYDRO-BIOS

## Smart Sampling

### Datasheet Single Fire ( 436 990 )



### Single Fire Module

The time-tested Multi Water Sampler technology reduced to the max – releasing a single water sampler at a precise depth

The Single Fire Module consists of a Plastic Water Sampler (also known as Niskin Bottle) of 1.7 litres capacity, mounted to a stainless steel rack which is equipped with a motor-driven release device. Power supply is made by internal rechargeable LFP batteries, using the safest Li-chemistry currently available. The digital standard model, by design, is a stand-alone instrument with integrated pressuer sensor.

Battery powered Hand Unit and Windows based OceanLab 3 software included.

## DESCRIPTION

### Online Mode

In online mode, operated in conjunction with standard electro-mechanical cables, the water sampler is actuated via push-button control by the battery powered Hand Unit. This also handles measuring data of the integrated high-precision pressure sensor.

### Offline Mode

In offline mode, operated in conjunction with steel or fiber ropes, the water sampler is automatically actuated according to a pre-programmed pressure (depth). Measuring data of the pressure sensor is recorded inside the internal data memory during the operation.



## TECHNICAL DETAILS

<b>length</b>	255 mm
<b>width</b>	120 mm
<b>height</b>	1200 mm
<b>sample volume</b>	1.7 l
<b>weight on air</b>	8.5 kg
<b>material of frame</b>	stainless steel
<b>material of motor unit and battery housing</b>	Titanium
<b>operational depth</b>	3000 m
<b>pressure sensor</b>	0.0 ... 3000.0 dbar $\pm$ 0.1% f.s. (standard)
<b>data memory</b>	4 MB
<b>hand unit</b>	Plastic housing, splash-proof (IP 65), battery powered, LC-display 4 x 20 characters, interface for PC (RS-232)
<b>power supply underwater unit</b>	Lithium iron phosphate (LiFePO <sub>4</sub> )
<b>product ID</b>	436 990

## CHARACTERISTICS

- **Compact size and low weight**
- **Standard depth range 3000 m**
- **Low power consumption**
- **Battery operated Underwater Unit**
- **Electronics operate from -40°C up to +85°C**
- **EC-conformity (CE) EN 50081-1, EN 50082-1**