



# HYDRO-BIOS

## Smart Sampling

### Datasheet Single Fire CTD ( 436 995 )



#### Single Fire Module with CTD

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 model with C-,T- and D-Sensor is a stand-alone instrument.

## DESCRIPTION

### Online

The water sampler is actuated via push-button control by the mains operated Deck Command Unit. The commands for actuation of the water samplers are given via a single or multi-conductor cable between the Underwater Unit and the Deck Command Unit or PC. The Deck Command Unit is equipped with a serial port for data transfer to PC.

### Offline

In case that a conducting cable is not available on board, the required sampling depth can be pre-programmed via personal computer. The actuation of the water sampler is then carried out automatically according to the pre-selected depth. All measuring data are stored inside the internal data memory (16MB) during the operation and can be read out by a PC when the system is back on board.



## TECHNICAL DETAILS

<b>length</b>	440 mm
<b>width</b>	280 mm
<b>height</b>	950 mm
<b>sample volume</b>	1.7 l
<b>weight on air</b>	12.5 kg
<b>material of frame</b>	stainless steel
<b>material of motor unit and battery housing</b>	Titanium
<b>operational depth</b>	3000 m - optional 6000 m
<b>pressure sensor</b>	0.0 ... 3000.0 dbar $\pm$ 0.1% f.s. (standard)
<b>temperature sensor</b>	- 2 ... +32, $\pm$ 0.005°C
<b>conductivity sensor</b>	0 ... 65 $\pm$ 0.01 mS/cm
<b>data memory</b>	16 MB
<b>deck command unit</b>	Metal housing for use in 19" rack or as table housing, push-button control for closing sampler, indication of sample number, pressure, battery status, LCD-display with LED backlight, RS 232 Interface for PC, power supply: 85- 260 V AC
<b>power supply underwater unit</b>	Lithium iron phosphate (LiFePO4)
<b>product ID</b>	436 995

## CHARACTERISTICS

- **Combined online/ offline use**
- **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**