



# HYDRO-BIOS

## Smart Sampling

Datasheet Integr. sampler 5 l 1000 m ( 436 607 )



### Integrating Water Sampler IWS III 5 l - for 1000 m sampling depth

Depth or time integrated water sampling made easy

The Integrating Water Sampler IWS III is a light and handy instrument for the acquisition of summing (integrated) water samples according to the EU-WFD (European Water Framework Directive). The integrated sample is automatically achieved in one single draft. There is no need for repeated operations of standard water samplers, followed by mixing procedures.

The sampling technique is very simple. An electric motor actuates a piston inside a transparent tube. A microprocessor controls the sampling procedure according to the pre-selected depth, time or spot scenario. A built-in high precision pressure sensor cares for accurate depth measurements. Power supply of the sampler is made by rechargeable lithium-ion batteries, using the safest chemistry currently available.

## DESCRIPTION

### Sampling is made easy with the IWS III

- ? select a sampling mode via hand unit or PC
- ? enter the requested depth or time interval
- ? put the sampler into the water and lower it to desired depth
- ? the sample will be precisely aspirated according to the selected scenario
- ? recover the sampler after the end of the selected depth, time or spot scenario
- ? extract the sample by opening the hose clamp located at the bottom of the sampler
- ? repeat the scenario by simply pressing the quick-start key



## TECHNICAL DETAILS

|                                     |                                  |
|-------------------------------------|----------------------------------|
| <b>height</b>                       | 88 cm                            |
| <b>diameter</b>                     | 19 cm                            |
| <b>sample volume</b>                | 5 l                              |
| <b>weight on air</b>                | 10 kg (empty)                    |
| <b>operational depth</b>            | 1000 m                           |
| <b>power supply underwater unit</b> | Lithium iron phosphate (LiFePO4) |
| <b>product ID</b>                   | 436 607                          |

## CHARACTERISTICS

- **Depth controlled integrated sampling with programmable depth interval**
- **Time integrated sampling**
- **Spot sampling – take a complete sample at a single depth**
- **Internal battery pack with rechargeable Li-Ion batteries**
- **Quick-start key – repeat the last sampling scenario without re-programming**
- **Extended operation protocol – fully integrated in OceanLab3 software**
- **Long-distance telemetry via electromechanical cables**
- **successfully UN 38.3 tested**