



# HYDRO-BIOS

## Smart Sampling

Datasheet Integr. sampler 2.5 l ( 436 601 )



### Integrating Water Sampler IWS III 2.5 l - for 100 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 without connecting any cable
- ? 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>	72 cm
<b>diameter</b>	19 cm
<b>sample volume</b>	2.5 l
<b>weight on air</b>	7.5 kg (empty)
<b>operational depth</b>	100 m
<b>power supply underwater unit</b>	Lithium iron phosphate (LiFePO4)
<b>product ID</b>	436 601

## CHARACTERISTICS

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