



HYDRO-BIOS

Smart Sampling

Datasheet MWS SlimLine 6 x 1 l (436 975)



Multi Water Sampler SlimLine 6 x 1 l

Compact Water Sampling System for Oceanography and Limnology

The compact version of the Multi Water Sampler MWS SlimLine 6 is an instrument designed for the collection of water samples in successive water layers. Only one operation for 6 different samples! The sturdy stainless steel array is equipped with six racks to which Plastic Water Samplers with a capacity of 1 litre can be mounted. Due to its compact dimensions and light weight it can easily be handled even on small vessels. The MWS SlimLine 6 is equipped with a motor-driven release device with an integrated Depth Meter (measuring range according to customers' requirements). The water samplers are sequentially closed in the succession of their mounting to the array (i.e. No. 1, 2, 3, ...). 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 water depth is 3000 metres. A special version for operational depths down to 6000 metres is available upon request.

The MWS SlimLine 6 is generally delivered for combined Online/ Offline use and is therefore the ideal all-purpose rosette system for use on research vessels with limited deck space.

DESCRIPTION

Online

The water samplers are 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 samplers is then carried out automatically according to the pre-selected depth intervals. 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.



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CT-Set

Together with the optional CT-Set the system offers the full capability of a state-of-the-art oceanographic CTD probe. The CT-Set consists of one conductivity sensor, one temperature sensor and an additional electronics board which is completely integrated into the Motor Unit of the MWS SlimLine 6. From the CTD data the system computes salinity, density and sound velocity according to UNESCO formulas.

Accessories

- Additional sensors of various parameters
- Special version for operational depths down to 6000 metres

TECHNICAL DETAILS

height	83 cm
diameter	55 cm
weight on air	40 kg (empty)
weight on air, equipped	58 kg
material of frame	stainless steel
material of motor unit and battery housing	Titanium
operational depth	3000 m - optional 6000 m
pressure sensor	0.0 ... 3000.0 dbar \pm 0.1% f.s. (standard)
data memory	16 MB
deck command unit	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
product ID	436 975



CHARACTERISTICS

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