

Multi Water Sampler SlimLine 6

Compact Water Sampling System for Oceanography and Limnology



ABOUT

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 capacities of 1, 3.5 or 5 litres (depending on model selected) are 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.

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. 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 of (16MB) during the operation and can be read out by a PC when the system is back on board.

ACCESSORIES

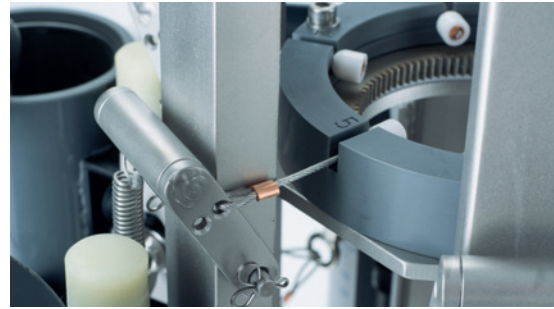
CT-Set

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 are 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.



FEATURES

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



OPTIONS

- ▶ Additional sensors of various parameters
- ▶ Special version for operational depths down to 6000 metres
- ▶ Serial RS-232 port, intended for external control of the Multi Water Sampler by third-party CTD probes

TECHNICAL DATA

Dimensions	1 l model: Ø 55 cm x 83 cm 3.5 l model: Ø 65 cm x 88 cm 5 l model: Ø 66 cm x 98 cm
Empty weight	1 l model: 40 kg 3.5 l model: 45 kg 5 l model: 55 kg
Operational depth	max. 3000 metres
Array	made of stainless steel
Motor Unit	made of titanium, battery powered (3 x DL 123A/3V)
Deck Command Unit	metal housing for use in 19"-rack or as table housing, not for use on deck; push-button control for closing of water samplers, indication of sampler no., pressure, battery status, optional CTD data. LCD-display with LED backlight, interface for Personal Computer (RS-232), power supply: 85 - 260 V AC
Data memory	16 MByte
Pressure sensor (Depth Meter)	0.0 ... 3000.0 dbar ± 0.1% f.s. (standard)

ORDERING INFORMATION

Products	
436 975	MWS SlimLine 6 with water samplers of 1 l capacity
436 976	MWS SlimLine 6 with water samplers of 3.5 l capacity
436 977	MWS SlimLine 6 with water samplers of 5 l capacity
Accessories	
450 500	CT-Set for Multi Water Sampler Additional electronics board, Conductivity sensor: 0 ... 65 ± 0.01 mS/cm Temperature sensor: -2 ... +32 ± 0.005°C Data rate: 1 Hz (1 data set per second)