



OSIL
Environmental Instruments
and Systems

ROV/AUV MOUNTED NISKIN ARRAY

Automated Collection of Water Samples from ROV and AUV Systems

An addressable ROV/AUV mounted modular water sampling array based around a standard 2.5L Niskin Bottle.

- Each bottle can be fitted with a turbidity sensor or other water quality sensor.
- Ethernet comms & data
- 5 bottles per module, each bottle can be individually identified and triggered
- Self-contained modules can be connected and stacked together to build up a network
- Identical symmetrical slot geometry in module frames allows for easy stacking /positioning on the ROV
- 6000m rated
- Reliable bottle release system
- Bottles armed and fired by solenoid actuator



FOR FURTHER INFORMATION PLEASE CONTACT:

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SPECIFICATIONS

Each module comprises: 5 x 2.5L Niskin Bottle with solenoid actuator, universal instrument mounting rail

Weight of each module: ~43kg (air),
~30kg (water), including sensors

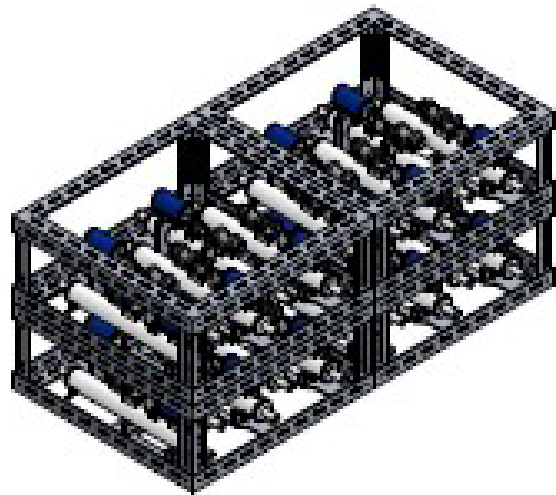
Power requirements: 24V, 6.5A

Operating depth: 6000m

Temperature range: -5°C to +40°C

Module dimensions: 1000 x 1000 x
385mm.

Communication interface: Ethernet



FEATURES

- Each bottle can be equipped with a separate turbidity sensor
- Each module can be equipped with a separate water quality sensor
- Modules can be daisy-chained
- Stackable modules occupy less space
- Universal instrument mounting rail

Operation of the bottles is controlled by the ROV/AUV command unit.

APPLICATIONS

- Deep Sea Mining
- Environmental Impact Assessments
- Geochemical analysis
- Interstitial waters
- Oil field cuttings piles
- Biological survey

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