ROV / AUV MOUNTED NISKIN ARRAY





Automated collection of water samples from ROV and AUV systems

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

- Each Niskin bottle can be fitted with a turbidity sensor or other water quality sensor.
- Ethernet comms & data
- 5 bottles per array, allowing each bottle to be individually identified and triggered
- Self-contained arrays can be connected and stacked together to build up a network
- Identical symmetrical slot geometry in rack frames allows for easy stacking / positioning on the ROV
- 6000m rated with Pressure Compensation system
- Reliable bottle release system
- Bottles armed and fired by solenoid actuator
- Stainless steel bottle with pressure valve option available to prevent sample degassing

Applications

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

Specifications

• Each sampling array comprises: 5 x 2.5L Niskin Bottle with solenoid actuator & universal instrument mounting rail

• Weight of each sampling array: ~43kg (air), ~30kg (water), including sensors

- Power requirements: 24V, 6.5A
- Operating depth: 6000m
- Temperature range: -5°C to +40°C
- Rack dimensions: 1000 x 1000 x 385mm.
- Communication interface: Ethernet / RS485

FEATURES

• Each bottle can be equipped with a separate turbidity sensor

• Each array can be equipped with a separate water quality sensor

- Pressure Compensation System
- Arrays can be daisy-chained
- Stackable racks occupy less space
- Universal instrument mounting rail
- Stainless Steel option available with pressure valve

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







FOR FURTHER INFORMATION PLEASE CONTACT:

Ocean Scientific International Ltd Culkin House, C7/8 Endeavour Business Park, Penner Road, Havant, Hampshire PO9 1QN, UK T: +44 (0) 2392 488240 E: osil@osil.com W: www.osil.com