ARVOR



Compact autonomous ARGO profiling float Salinity -Temperature - Pressure



ARVOR provides salinity, temperature and pressure profiles up to 2000 meters depth, using proven ARGO sensors. Data and positioning are achieved by ARGOS satellites.

Mission with two depth values alternated and grounding avoidance function are settable by user before mission.

With self-ballast and very light design, ARVOR can be deployed by one person.

Design has been performed by Ifremer, research by using an important know how in float activities and well qualified subassemblies. nke instrumentation has achieved the industrial design.

Main characteristics:

- Designed for the core Argo mission
- Light and easy to deploy (less than 20kg)
- "Sea-Bird" proven CTD metrology
- Theorical autonomy with CTD pump in
 - Up to 220 cycles (CTD continuous pumping)
 - Up to 290 cycles (CTD pump in switched mode)
- Easy connectivity using RF bluetooth



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ARVOR

Data collection and positioning by ARGOS satellites

TECHNICAL SPECIFICATIONS TYPE ARVOR float

SBE 41 CP with pump Seabird Electronics

Salinity

Range 0 to 42 PSU Initial accuracy ± 0.005 PSU Observed drift < 0.01 PSU / 5 years

Temperature

Range -5° C to +35° C Initial accuracy ± 0.002° C Observed drift < 0.002° C / 5 years

Pressure

Range 0 dbars to 2100 dBars Initial accuracy ± 2.4 dBar Drift < 5 dBar / 5 years Offset reset before dive at each surfacing

FLOAT DIMENSIONS

Overall Length 195 cm with antenna

Hull Length 120 cm

Hull Diameter 12 cm

Damping and floating collar 25 x 25 cm

Weight 19.5 kg

FLOAT CONSTRUCTION

Hard anodized aluminum casing

BUOYANCY CONTROL

Principle Oil ballast with pump & valve Positioning accuracy ± 30m (98.4 ft.)

OPERATION FEATURES

Operation depth until 2000 dBar Number of profiles capabilities

Up to 220 cycles to 2000 bars/CTD pump in continuous

Up to 290 cycles to 2000 bars/CTD pump in switched mode

Number of profiles programmable Operating temperature -2°C to +35°C

POWER SUPPLY

Lithium cells

USER INTERFACE

A - Bluetooth User Interface

Mission programming, float checking, etc.

Terminal: Personal Computer

b- Fan tail ready

Activation by magnetic switch

Remove magnet launches float and trig test Argos Transmission

TELEMETRY ARGOS system

Duration on surface according to the quantity of data to transmit and latitude, typically between 8 to 10 hours.

Resolution of transmitted measurements:

 Salinity 0.001 PSU Temperature 0.001°C • Pressure 0.1 dbar

STORAGE CONDITIONS

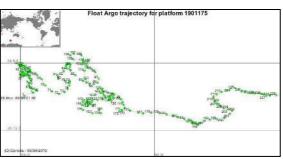
Temperature -20° C to +70° C (-4° F to +158° F) Maximum storage time before use: 1 year Real time clock saved by separate battery

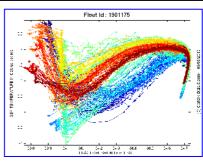






> Pictures Ifremer









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