DEEP ARVOR

Ifremer



Compact autonomous ARGO profiling float for use at 4000 meters depth, 150 cycles Salinity -Temperature - Pressure - DO Ice Sensing Algorithm





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Data collection and positioning by IRIDIUM and GPS

TECHNICAL SPECIFICATIONS TYPE DEEP ARVOR float

4000 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</p>
- Temperature Range -5° C to +35° C Initial accuracy ± 0.002° C Observed drift < 0.002° C / 5 years
- Pressure
 - Range 0 dbars to 4100 dBars Initial accuracy ± 2.4 dBar Drift < 5 dBar / 5 years Offset reset before dive at each surfacing

4330 Aanderaaa optode for DO

Range 0 μM/l to 500 μm/l Accuracy 8 μM/l ± 5%

FLOAT DIMENSIONS

Overall Length 216 cm with antenna Hull Length 120 cm Hull Diameter 14 cm Damping collar 25 x 25 cm Weight 26 kg

FLOAT CONSTRUCTION Carbon epoxy housing

BUOYANCY CONTROL Principle Oil ballast with pump & valve Positioning accuracy ± 50m

OPERATION FEATURES

Operation depth until 4000 dBars Sampling and transmission up to 2000 points Computed number of profiles More than 150 cycles to 4000 bars/CTD More than 225 1/5 4000/2000 CTD / DO 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

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TELEMETRY IRIDIUM system

Iridium SBD GPS

Resolution of transmitted measurements:

 Salinity 	0.001 PSU
 Temperature 	0.001°C
Pressure	0.1 dbar
• DO	0.,002°

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



Float Id : 6901597





Pictures thanks to ifremer's courtesy



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