

PROVOR CTS3

*Autonomous oceanographic
ARGO profiling float
Salinity - Temperature - Pressure*



Profiling floats

PROVOR CTS3 is a reliable, cost-effective float with self-ballast that collects typically 112 data triplets (salinity, temperature and pressure) during its drifting and ascending phases. Once at the surface, these data are sent via the ARGOS system. The PROVOR CTS3 is designed to achieve up to 250 cycles.

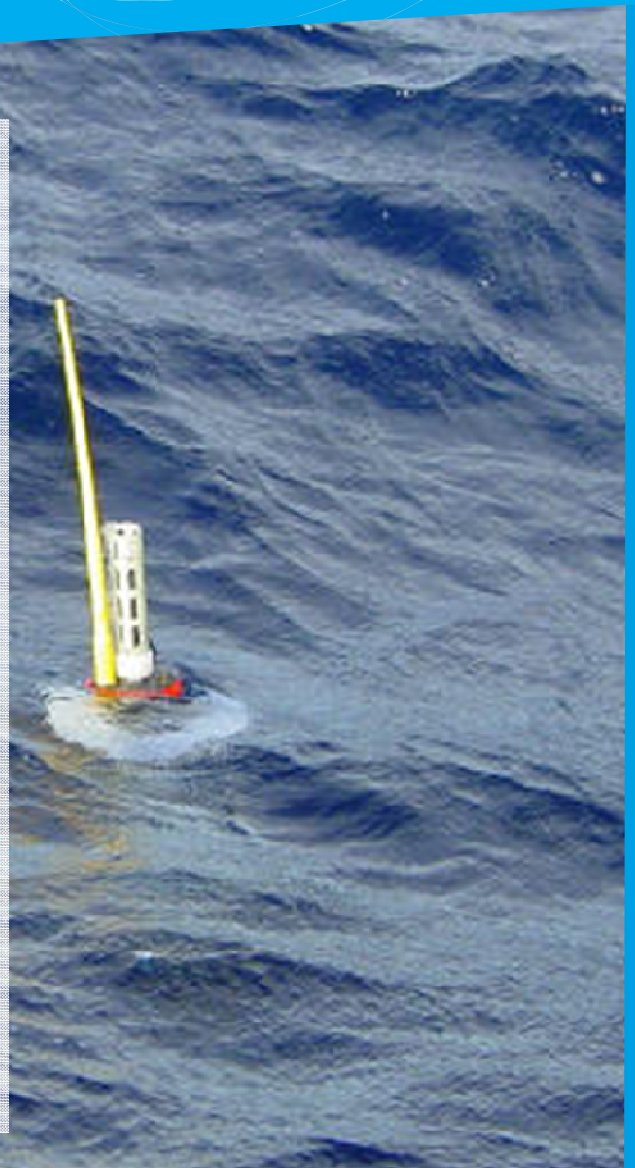
More than 700 units have been produced since 1998.

PROVOR CTS3 can be launched from any vessel at slow speed using only a rope and at high speed (20 knots checked) by using release kit and launching crate.

The PROVOR has been developed in industrial partnership with Ifremer.

Main characteristics:

- Qualified technology for ARGO project
- Sea Bird electronics proven CTD metrology
- Up to 250 cycles
- 4.5 years autonomy
- Down to 2000 m depth
- Easy connectivity with Bluetooth
- Self-ballasted float



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INSTRUMENTATION

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PROVOR CTS3

Data collection and PROVOR positioning via ARGOS satellite



TECHNICAL SPECIFICATIONS TYPE PROVOR CTS3

Seabird Electronics SBE 41 CP

- ▶ Salinity
 - Range 0 to 40 PSU
 - Initial accuracy ± 0.003 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 dbar to 2100 dBar
 - Initial accuracy ± 2.4 dBar
 - Drift < 5 dBar / 5 years
 - Offset reset before dive at each surfacing

FLOAT DIMENSIONS

Overall Length 225 cm with antenna
 Hull Length 170 cm
 Hull Diameter 17.3 cm
 Weight 33 kg

FLOAT CONSTRUCTION

Hull anodized aluminum casing

BUOYANCY CONTROL

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

NUMBER OF PROFILES CAPABILITIES

Up to 250 cycles in continuous pumping mode
 Up to 300 cycles in switched mode

ENVIRONMENTAL OPERATING CONDITIONS

Operating temperature -2°C to +35°C
 Operating life 4.5 years at sea
 Power supply Lithium cells (Alkaline battery available)
 Operating depth 2000 dbar

USER INTERFACE

- a - Using Bluetooth
 - Mission programming, float checking, etc.
 - Terminal Personal Computer
- b- Fan tail ready
 - Activation by magnetic switch
 - Remove magnet launches float and triggers Argos
 - Transmission test

TELEMETRY

ARGOS data transmission and localization

Salinity	resolution 0.001 PSU
	range 10 to 42 PSU
Temperature	resolution 0.001°C
	range -2°C to +30.7°C
Pressure	1 dbar

STORAGE CONDITIONS

Recommended 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

Launching the PROVOR CTS3



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