



SWALE OCEANOGRAPHIC

ALTUS

Submersible altimeter & data logger for sediment monitoring

ALTUS allows the study of mudflats or beach level variations according to tidal currents and swell. This high frequency acoustic data-logger is equipped with a 2 MHz transducer located on a light frame at a given distance from the seabed.

ALTUS can also be used as a tide gauge thanks to its accurate pressure sensor.

- Light and compact – Easy to deploy
- Fast wireless configuration and data collection using **Inductive Data Pencil** interface via a PC USB port using **Winmemo** software
- Dedicated transducer frame is available

Main features:

Programmable detection thresholds giving 4 simultaneous altitude measurements, depending on the sedimentation level

Millimetric measurements of the seabed elevation changes

Recorded parameters:

- 4 distances from seabed
- 1 «maximum echo» value to validate the data
- 1 absolute pressure for water height and wave



Examples of use

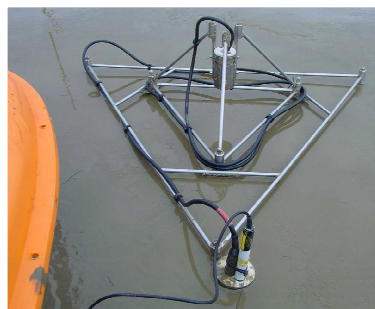
Sedimentation and erosion rate assessment in coastal waters, estuaries, ports and rivers

Validation of mathematic models

Harbour monitoring and estimation of the volumes to be dredged

Shallow waters and muddy environments

| DESIGNATION | | ALTUS |
|-----------------------|--------------------|---|
| Altitude | Range | 20 to 200 cm |
| | Resolution | 0.6 mm |
| | Accuracy | 2 mm in the 20 to 70 cm range 5 mm in the 70 to 200 cm range |
| | Acoustic frequency | 2 MHz Beam 3.6° |
| Water height range | | 0 to 20m (maximum 30m depth) Accuracy <6 cm Resolution 0,8 cm |
| Time | | Internal clock with calendar |
| Automatic start /stop | | On/Off controlled by pressure sensor (burst mode available) |
| Sampling rate | | Programmable from <1 second to 99 hours |
| Autonomy | Memory (4MB) | >8 months autonomy at sampling rate of 5 min |
| | Energy | 5 years autonomy at sampling rate 5 of min Replaceable Lithium batteries |
| Mechanical features | Altus housing | Length 240mm x Ø 80 mm max. |
| | Transducer | Length 79mm x Ø 58 mm |
| | Cable | Length 5.5 m x Ø 9mm |
| | Weight in air | 2.6kg |
| | Frame (optional) | Base: 500 x 500 x 500mm Height: 274mm Legs: 945mm |



SWALE TECHNOLOGIES Ltd

Unit 51G, Rm48 Whitehill & Bordon Enterprise Park, Budds Lane, Bordon, GU35 0FJ, UK
Tel: +44 (0)1420 473334 Email: Sales@swaletechnologies.com www.swaleocean.co.uk