



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 20 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



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