

WHEN IT'S ALL ABOUT GETTING THE RIGHT SIGNAL



TIDE GAUGE



E-SEA TIDE

A WAVE OF USEFUL PRODUCTS



TIDE GAUGE

“We want to develop the most reliable tide gauge in the world”. This was actually our background for developing the E-Sea Tide. One may wonder why we came up with this idea. We did because we think the market deserves it.

We have never seen a tide gauge where every detail has been thought of and implemented - without compromise. The E-Sea Tide is a tide gauge without compromise. Our years of experience and our dedication to this product have made this development possible.

The result is a compact tide gauge mainly made of titanium steel and ceramics ensuring absolute functionality in water.

TYPICAL HYDROGRAPHIC APPLICATIONS ARE:

- Lakes
- Rivers
- Canals
- Locks
- Harbours
- Water treatment plants
- Hydroelectric, nuclear and coal fired power plants

PERFORMANCE

The E-Sea Tide provides accurate information on water level and temperature. The E-Sea Tide is powered from an internally mounted battery, which is rechargeable. Microprocessor controlled measuring circuits, memory, a digital clock and PC interface is mounted inside the waterproof housing.

“E-Sea Tide Software” is dedicated to this tide gauge. It is Windows based and can set up the tide gauge as well as collect and display the recorded data.

The E-Sea Tide measures the water level by means of a pressure sensor. The standard pressure sensor measures tide from 0 to 10 metres. The sensor is made of ceramics and is extremely robust and it remains highly accurate even in the presence of seaweed, mussels, snails, etc.

Besides water level and temperature data, the E-Sea Tide can log battery voltage data as well. Depending upon the setting of the averaging period and logging interval, the battery can last up to one year before recharging will be necessary.

The memory can save up to 38,000 recordings (one channel). This ensures up to 8 months of tide recordings in intervals of 10 minutes, or up to 4 months of tide, temperature and battery voltage recordings, also in intervals of 10 minutes (battery voltage is only recorded once per hour).

The E-Sea Tide can be mounted fully

E-SEA TIDE FEATURES

- Robust design
- Compact and light weight
- Easy to install
- Large internal memory
- Annotation functions with built-in clock and calendar
- Easy calibration

submerged in the water, which prevents vandals from detecting it. Atmospheric pressure is corrected for through the vented, 14 metre long coaxial cable.

OPTIONS

External power supply

The E-Sea Tide can be provided with a plug for connection to 9 - 36V DC power.

Additional coax cable length

Cable lengths of up to 50 metres can be supplied.

Extended memory

A memory with a capacity of 81,500 recordings can be supplied instead of the standard memory (38,000 recordings).

20 metre depth range

For places with extremely high tides, a 20 metre version is available.

Field case / transport container

The foamed field case eases transportation and also protects the E-Sea Tide.

Intelligent junction box

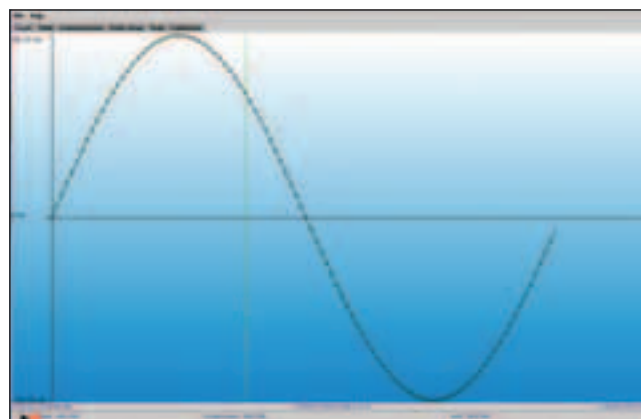
The intelligent junction box will enable interface to a telephone modem for data transmission over an ordinary telephone, a mobile phone or over the internet. This option will be available soon (2002).



E-Sea Tide and a laptop



"E-Sea Tide Software"



Typical tide

SPECIFICATION AND PERFORMANCE DATA

Depth range:	From 0 to 10 metres Option 0 to 20 metres
Accuracy of depth:	0.1% of the range
Resolution	1 cm
Averaging period:	(integration time) From 1 second to 18 hours
Auto logging:	From the length of the averaging period up to 24 hours
Measuring rate:	50 times per second
Transducer:	Pressure, Ceramic
Temperature sensor:	Semiconductor
Temperature accuracy:	$\pm 1^{\circ}\text{C}$ absolute
Input/output:	RS-232C to PC with E-Sea Tide Software
Power requirement:	Internal rechargeable lithium ion battery
Internal charger:	Typical time between charging: 12 months Minimum time between charging: 6 months
Operating temperature:	-25°C to $+55^{\circ}\text{C}$



Field case for E-Sea Tide

Dimensions	E-Sea Tide	Field case
Length	301 mm	455 mm
Width		368 mm
Depth		166 mm
Diameter	54 mm	
Weight	1.5 kg	1.5 kg.

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Specifications may be changed without notice. 02/02 03170038

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