

STING MK II Underwater Sediment Bearing Strength Probe

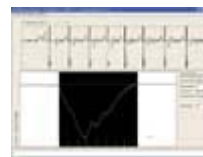
A.G.O. Environmental Electronics Ltd is pleased to provide to the oceanographic, environmental and underwater survey communities the next generation of the Seabed Terminal Impact Newton Gradiometer, STING Mk II. This unique free-fall penetrometer provides a powerful and cost-effective alternative to the methods commonly used for determining the dynamic load bearing strength of the seabed.

[Description](#)

[Technical Specifications](#)

Applications for STING include:

- Cable and pipeline route surveying
- Underwater seismic sensor locating
- Underwater package locating
- Ground-truthing of acoustic sub-bottom and seabed classification data
- Pre-dredging operations surveying
- Scientific sediment monitoring



STING data screen

[Click to enlarge](#)



STING analysis screen

[Click to enlarge](#)

A complete system consists of:

- Sediment probe recording deceleration and pressure
- One-metre shaft segment with standard contact foot (shaft extensions and additional foot sizes available)
- Battery charger
- RS232 data download cable with sub-sea connector and serial port plug
- STING Version 4.0 Communications and Data Analysis software
- Storage container suitable for shipping

Optional accessories include: shaft extensions and couplers, various foot sizes for different sediment types and a hand-operated winch system for line handling and recovery. Deeper pressure ranges may be available upon request.

STING TECHNICAL SPECIFICATIONS

Acceleration measurement range:	0 G to +10 G
Acceleration measurement resolution:	0.0025 G (12 bits)
Load bearing strength measurement range:	0 to 950 kPa
Water depth measurement range:	0 m to 200 m
Water depth measurement resolution:	0.05 m (12 bits)
Maximum operational depth:	300 m
Maximum measurable depth of penetration:	3 m (with shaft extenders)
Sampling rate:	2 kHz
Data acquisition triggering:	Water immersion or preset depth (0 m to 200 m)
Data collection autonomy (memory capacity):	approx. 4 minutes (acceleration only), or 2 minutes (acceleration plus depth)
Download speed to computer:	115.2 kilobaud
Download time:	approximately 4 minutes
Shaft length:	1 m standard, extendable to 3 m with additional segments
Impact foot diameters:	25 mm, 35 mm, 50 mm (stainless steel), 70 mm (aluminum)
Probe materials:	304 stainless steel body, hard-anodized aluminium end cap, PVC tail cone
Recommended tether (retrieval cord):	4.8 mm diameter braid, type SC-6
Mass:	approx. 10 kg with 1 m shaft length, 3 kg for each additional 1m extension
Power:	Internal battery, rechargeable (adapter included)
Software:	Communications and Data Analysis. Runs under Windows 98, NT 4.0, 2000 and XP