

# MicroEel Data Sheet

The Geometrics MicroEel Analogue Seismic Streamer is perfectly suited to ultra-high resolution marine sub-bottom investigation projects. Manufactured from solid polyurethane the Geometrics MicroEel offers unbeatable signal clarity.



MicroEel System with Geode Seismograph. Image courtesy of Geometrics Inc.

Signals from the streamer are digitised by the renowned Geometrics Geode seismograph. The intuitive data acquisition software can be run on a standard Laptop PC. All components of the recording system can be run from 12V batteries permitting the system to be operated from any vessel.

The system is light weight and can be deployed by hand from a small vessel. The MicroEel is ideal for geological engineering projects in shallow water.

The MicroEel opens the door to affordable multichannel seismic data acquisition.

#### **Features**

- Available in 1 to 24 channel configurations
- State-of-the-art, low noise, high sensitivity polymer hydrophones provide stable, accurate response.
- 31cm bend radius winds easily on small winches.
- Extremely lightweight, deploys easily by hand,
- Proprietary floatation survives abrasive environments, proven performance in polar regions.
- Unique design isolates vibration, bulge waves and suppresses ship and towing related noise.

### **Product Dimensions**





Physical	Dimensions (L x W x H)	Weight
(instrument only)	depended on group interval x 32mm x 32mm	0.79kg/m.

# **Technical Specifications**

Sensor Type:	Proprietary Polymer
Frequency Response:	10 Hz to 10,000 Hz ±1.0 dB.
Sensitivity (Nominal):	-196 dB re 1 Volt per 1 ?Pa.
Sensitivity to Acceleration:	Less than -70 dB re 1 Volt per g.
Operating Depth (Maximum):	30 ±5 m
Preamplifier Gain:	6 dB.
Current:	11mA per channel.
Power:	±12 V DC MicroEel Battery Pack (topside).
Channels:	12 or 24; other counts available.
Hydrophones per Group:	1 or 3; other counts available.
Group Aperture:	0 or 0.22 m; up to 1 m maximum.
Group Aperture:  Group Interval:	0 or 0.22 m; up to 1 m maximum.  3.125 m or 6.25 m; other intervals available to 1 m minimum.
Group Interval:	3.125 m or 6.25 m; other intervals available to 1 m minimum.
Group Interval: Active section material:	3.125 m or 6.25 m; other intervals available to 1 m minimum.  Multi-conductor with polyurethane jacket.
Group Interval: Active section material: Bend Radius:	<ul><li>3.125 m or 6.25 m; other intervals available to 1 m minimum.</li><li>Multi-conductor with polyurethane jacket.</li><li>0.46m.</li></ul>
Group Interval: Active section material: Bend Radius: Working Load:	<ul><li>3.125 m or 6.25 m; other intervals available to 1 m minimum.</li><li>Multi-conductor with polyurethane jacket.</li><li>0.46m.</li><li>182kg</li></ul>

# Gallery

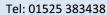








Deployment of MicroEel\_setting the layback.





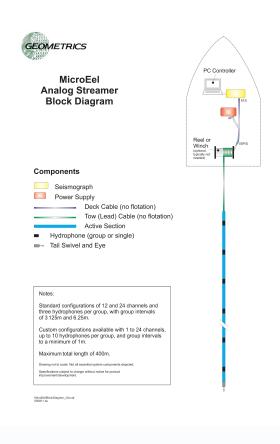


Diagram illustrating the key components which formulate a MicroEel system.