

SOLID ANALOG SEISMIC STREAMER

Features & Benefits

- State-of-the-art, high-sensitivity polymer hydrophones provide a stable, accurate response over wide temperature and pressure ranges
- Unique streamer design isolates vibration and suppresses ship and towing noise
- Solid flotation withstands the rigors of commercial surveys in harsh conditions; non-hazardous and easily transported on commercial airlines
- Standard configurations of 12 and 24 channels; custom configurations also available
- Extremely lightweight, deploys easily by hand or from small winch



Overview

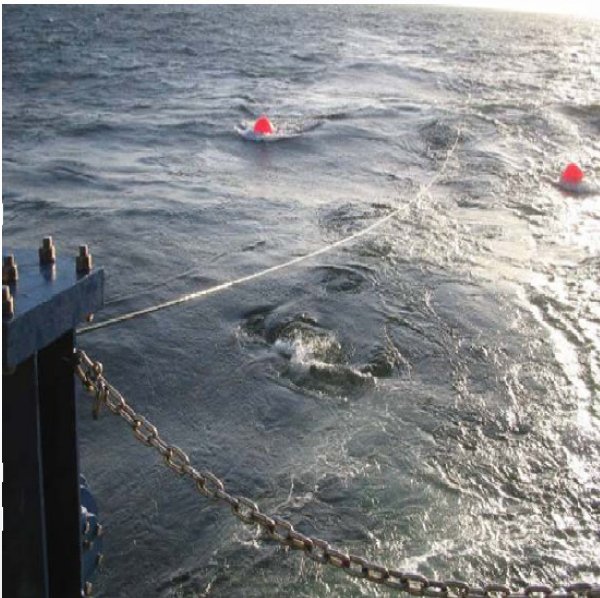
The MicroEel is configured with an active section of 12 or 24 channels and a hydrophone group interval of 3.125 or 6.25 m. Each group includes three depth-limited proprietary polymer hydrophones with a frequency response of 10 Hz to 10 kHz. The group signal is summed electrically and connected to one preamplifier per channel. Custom configurations are also available.

Integrated with the active section is the tow cable, which connects topside to the MicroEel Streamer Battery Pack and seismograph via a deck cable.

The active section is built using Geometrics continuous-flotation molding method. This solid construction is specifically designed to withstand the rigors of commercial surveys in harsh conditions.

The MicroEel solid streamer has the performance and reliability that allows you to stay at sea longer, with less down time, and collect high-resolution data where other streamers cannot go.

The MicroEel is backed and supported by Geometrics, now in its 42nd year, and our worldwide service center network. Contact us today to find out how the MicroEel can work for you.



Hydrophone

Sensor Type	Proprietary Polymer
Frequency Response	10 Hz to 10,000 Hz \pm 1.0 dB
Capacitance	7.2 nF per element at 22° C
Sensitivity (Nominal)	-196 dB re 1 Volt per 1 μ Pa
Sensitivity to Acceleration	< -70 dB re 1 Volt per g
Operating Depth (Maximum)	30 \pm 5 m

Preamplifier

Type	Ultra-low noise differential
Gain	6 dB
Low Corner Frequency	-3 dB at 10Hz
Current	11mA per channel
Power	\pm 12 V DC MicroEel Battery Pack (topside)

Active Section

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 Interval	3.125 m or 6.25 m; other intervals available to 1 m minimum*
Flotation Material	Polyurethane-based
Outside Diameter	32 mm
Weight (in air)	0.79 kg/m
Bend Radius	0.46 m
Strength Member	Kevlar center stress core
Working Load	182 kg
Breaking Strength	909 kg

Deck and Tow Cables

Type	Multi-conductor with polyurethane jacket
Length (Maximum Total)	400 m (including active section)
Termination	Deck: Y-type with one 61-socket connector (or 27-socket connector), one 4 pin connector (topside); one 55-socket waterproof connector Tow: one 55-pin waterproof connector
Outside Diameter	13.5 mm
Weight	0.15 kg/m
Bend Radius	0.46 m
Strength Member	Kevlar center stress core
Working Load	182 kg
Breaking Strength	909 kg

Temperature

Operating Range	-10°C to +60°C
Storage Range	-40°C to +60°C

*Please contact the factory to discuss your requirements.
Specifications subject to change without notice for product improvement/development.
Depending on the end user's location, the MicroEel may require a US Department of Commerce export license.

~MicroEel_r2.doc 091511 du