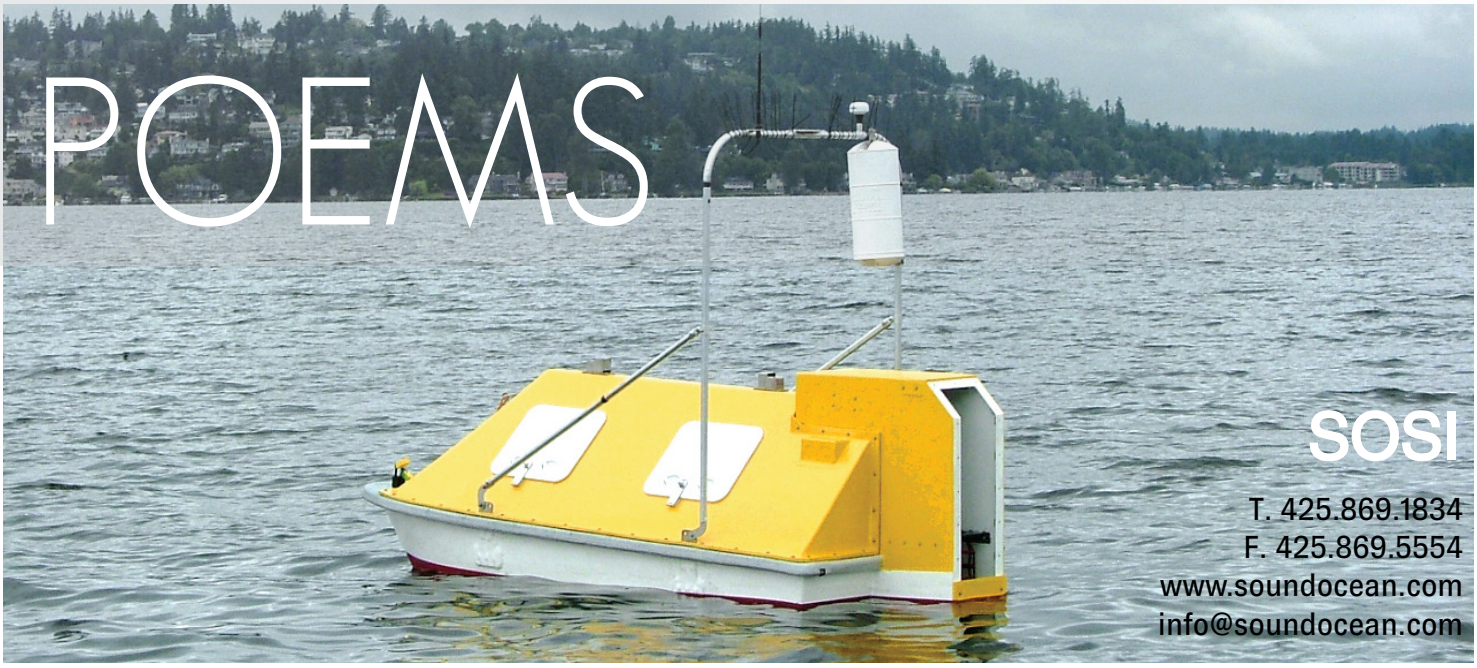
» Portable Oceanographic & Environmental Measurement System



Standard Features

- White Gel Coat above Waterline
- Anti-Fouling Paint Below Waterline
- Buoy Cover, Yellow Gel Coat
- Fiberglass Hull
- Stainless Steel Fasteners
- Aluminum Instrumentation Mast
- 24 VDC Gear Motor w/ Integral Brake
- Diamond Screw Levelwind

Specifications

Weight.....115 lb. (fully equipped)
Diameter .....27 in.
Height.....25 in. (with antenna)
Buoy:
- Length: .....134 in. (3404 mm)
- Beam: ..... 62 in. (1575 mm)
- Height:..... 54 in. (mast stowed)

.....102 in. (mast erect)

Weight:
- System (w/o cradle): .....1300 lb. (590 kg)
- Buoy Cradle: .....150 lbs (68 kg)

Winch:
- Drum Diameter:.....8.63 in. (219 mm)
- Flange Diameter:...18 in. (457mm)
- Drum Width: .....5.5 in. (140mm)

Winch Performance:
- Max. Line Pull: .....100 lb.
- Nominal Speed:.....100 fpm (30.5 m/min)

*Specifications subject to change

SOSI's Portable Oceanographic & Environmental Measurement System (POEMS) is a self-contained, boat shaped, sensor deployment system for an array of environmental monitoring equipment. The system has a modular design with two watertight hatches on its hull for easy access to sensors and components. It is portable by truck / trailer and towable up to 5 knots by boat. It's fiberglass hull, stainless steel fasteners and gel coat / anti-fouling paint ensures long life in harsh marine conditions.

The POEM has a single leg design mooring. It includes navigation lights and radar reflectors on its fold-down tower and a SOSI Trident Data Logger / Controller. It's batteries are capable of 90 day deployments and charged by external cord. For communications the POEMS uses RF telemetry with optional iridium and/or ARGOS.

POEMS comes standard with four sensor suites. The vertical profiling winch subsystem takes CTD water column measurements including: conductivity, water temperature, pressure (depth) sea surface temperature and optical transmissivity (requires additional sensors). The ADCP subsystem takes measurements for current direction, current speed, significant wave height and tidal height. The meteorological suite takes measurements for wind speed and direction, air temperature, barometric pressure, relative humidity, and optional solar radiation sensors. The onboard GPS system records Latitude and Longitude.

Thank you for reviewing the POEMS system. Please contact our helpful technical staff if you require assistance with this product. Our team of skilled engineers, designers and trained technicians are ready to assist you with product modifications and solutions to meet your most demanding requirements.

Be it an existing product or a customized package—our mission is to offer innovative engineering, design and quality manufacturing for our diverse and growing global customer base. Take action and make waves with SOSI today! SOSI

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