

SOSI

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SEA SURFACE TEMPERATURE BUOY

» Model SST-001




The SOSI Sea Surface Temperature (SST) buoys are single sensor oceanographic data buoys provided complete with mooring line, anchor and mooring hardware. These buoys were developed for deployment in fully exposed shallow water locations subject to high currents and high levels of solar radiation. They are capable of measuring and recording accurate temperature data for periods in excess of twenty-four months. The buoy hulls are constructed of fiberglass and filled with buoyant polyurethane foam. A watertight compartment is integrated into the fiberglass structure. An internal chassis and end cap assembly supports and houses telemetry, data logging and battery equipment.

A SOSITrident data logger is used to control all aspects of the buoy's operation including: data transmission, switching and power management functions implemented to minimize energy consumption. Power is supplied by an internal alkaline battery pack with a life span up to 24 months. The buoys can be stored in a dormant state and awakened by removing an external magnet. A Telonics ST-13 or ST-20 ARGOS PPT is used to transmit a subset of the daily data. The buoys are supplied with an internal moisture detector. Onboard diagnostics, including the moisture detection, battery power, and fault conditions are integrated in the data transmission.

The sensor on the SST is a SeaBird SBE 39, a precision temperature sensor and recorder. It has a measurement range of -5°C to $+35^{\circ}\text{C}$, a resolution of 0.0001°C , and an initial accuracy of $.002^{\circ}\text{C}$. The SBE 39 is put into a self-recording mode and is polled by the SOSITrident data logger for data.

Thank you for reviewing the SST Buoy. 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! 

Technical Specifications

Outside diam.	457 mm (18 in.)
Overall height.....	762 mm (30 in.)
Buoy weight.....	26 kg (57 lb.)
Anchor weight.....	118 kg (260 lb.)
Sensor depth.....	330 mm (13 in.)

Options

- Iridium Telemetry
- GPS
- Fixed Installation Configurations



*Specifications subject to change