The **Enduro APT** is a small lightweight instrument for moored applications. It measures Acceleration, Pressure and Temperature. Enduro logs internally and transmits measurements to the surface in real time with a Sea-Bird compatible inductive modem, communicating over plastic-jacketed wire rope.

Enduro APT offers a new standard of performance, ease of use and low cost. The plastic housing has two halves. One contains the electronics, and the other forms a clamp, sized at the time of order to match the jacket diameter of the wire rope. The sensor mounts concentrically on the cable and is clamped in place when the halves are joined with four captive screws. The sensor shape reduces drag and fends off fishing lines or debris that might otherwise snag the instrument.

Sensors can be installed quickly and easily by one person with a small cordless driver. The Enduro APT can be used on cables with jacket diameters ranging from from 5/32 in. (4 mm) to 5/8 in. (16 mm). It can be re-configured for use on different cable diameters by simply changing the clamping half to the appropriate size. Additional clamping halves are sold separately for under $100 USD.

Enduro stores data on both an 8MB internal flash memory and a removable micro SDHC memory card (4GB minimum). Data capacity is limited only by battery endurance. Enduro is capable of sampling acceleration, temperature and pressure every 3 minutes for three years in a typical inductive mooring or every 90 seconds for three years if the inductive modem is not active.

USB

LEDs

Button

SDHC

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Removable SDHC Memory Card

The removable memory card offers unprecedented convenience for managing deployments of large numbers of sensors. Memory cards may be prepared in advance with a setup file. To prepare for deployment, just install the card then press the button next to the card socket. When configuration is read and validated a small green light flashes and the sensor is ready to go. If there is any problem a yellow light flashes

The removable memory card also simplifies data retrieval. Just open the housing, press the button and remove the memory card when the green light flashes. Sensor serial number, calibration data, start time and card removal time are automatically saved with the measurement data on the memory card.

Inductive Modem Compatibility

The Enduro ATP can receive and transmit at 1200 baud and can be controlled by a Sea-Bird inductive modem (SIM or IMM). It can also transmit data at higher speeds (up to 19200 baud) to the S9 Ulti-modem. This allows the Enduro to operate both in sensor strings controlled by a Sea-Bird incuctive modem, and on higher speed moorings controlled by the S9 Ulti-modem. In high-speed communication mode, the Ulti-Modem can send one command causing all the Enduro sensors to sample simultaneously, and a second command to retrieve data from all the sensors in their assigned order without polling them individually. This greatly simplifies programming. The faster IM communication reduces system on-time, saving power for longer deployments.

Specifications

Temperature		Battery: one cell, 3.6V AA Lithium; Saft LS-14500 or equivalent.
Range: -5 to +45°C		Housing: PET, 600 meters depth rating
Initial Accuracy: ±0.005°C (-5 to +35°C)		Size: 200 mm (L) x 35 mm x 40 mm
Stability: 0.00025°C/month		Weight: 308 grams (in air)
Resolution: 0.0001°C		87 grams (in seawater)
Time constant: 800 milliseconds (still water)		

Pressure (optional)
Range: 20,100 or 250 dbar
Accuracy (absolute)   ± 0.4% (0 to 35°C)
Resolution: 0.02%

Tilt
Range: 0 to 180°   (+/- 2g acceleration)
Accuracy: ± 2°   (+/- 25 mg)
Resolution: 0.1°   (0.1mg / 0.15mg/rtHz)

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