

**ACCURATE ADD-ON UNIT FOR WATER SAMPLING BOTTLES. SAMPLES WATER TEMPERATURE AND PRESSURE.**



SeaTurtle 2. Electronic unit mounted in the "cradle".

- \* Detects when bottle turns around and when lid closes
- \* Accurately samples water temperature and pressure at bottle release depth. Presents data on OLED display
- \* High contrast OLED display. Great visibility also in bright sunlight and darkness
- \* Fits on virtually all types of water sampling bottles
- \* NIST traceable Temperature sensor
- \* No need to ever re-calibrate temperature sensor. Long term drift is max 0.03 C in +125 years
- \* May also sample high resolution vertical Depth/Temp profiles
- \* Transfers vertical profile data to customer's mobile via Bluetooth BLE

**SeaTurtle 2** from Ocean Origo may easily be mounted on virtually any type of water sampler bottles. This autonomous add-on unit detects when the bottle releases (lid closes or bottle turns around) and accurately samples water temperature and water pressure at release depth. Data is presented on a high contrast OLED display. The operator controls the instrument using a small handheld magnetic 'pen'. SeaTurtle II automatically enters 'Sleep mode' when not active thus reducing power consumption to almost zero.

**SeaTurtle 2 is a significant upgrade compared to original SeaTurtle:**

- \* May be configured to also take high-resolution vertical temperature profiles. Up to 4 Hz sampling
- \* Data file read out via Bluetooth BLE
- \* Improved temperature measurements. Outstanding long term stability. No need to ever re-calibrate sensor
- \* Improved pressure sensor accuracy
- \* Smaller size
- \* Maximum depth range increased from 500 m to 700 m
- \* Higher battery capacity and lower current consumption means much longer battery operation time
- \* New display with better contrast for comfortable data read out also in darkness and in bright sun light

<b>Max depth</b>	700 m
<b>Temperature</b>	Range: -10 C to +50 C. Long term stability: max 0.03 C over 125 years. Resolution: 0.01 C. Accuracy: typ. +/- 0.05 C. Repeatability: 0.01 C. Response time: 2-3 s. NIST traceable and ISO/IEC 17025 verified.
<b>Pressure</b>	Range: 1000 dBar. Resolution: 0.1 dBar. Non-linearity: max +/- 0.15 % FSR. Total error band incl. temp effects: max 0.7 % FSR. No hysteresis. Immediate response time. Port for calibration.
<b>Size &amp; weight</b>	Electronic unit: D x L = 30 x 235 mm. Approx 150 g.
<b>Power</b>	Internal single lithium primary cell LS14500. Replaceable by user.
<b>Communication &amp; Control</b>	Handheld magnet 'pen' to configure, read out data, start instrument, etc.: Bluetooth BLE for downloading profile data to mobile.
<b>Scoop</b>	SeaTurtle 2 unit including lithium battery cell, cradle, SeaTurtle string for connection to lid bottle, metal press-fit clamp, one set of standard size hose clips for mounting on bottle, handheld magnet 'pen' and manual.
<b>Operation</b>	<ul style="list-style-type: none"> <li>• <i>Turn around:</i> SeaTurtle detects when water bottle turns around.</li> <li>• <i>String:</i> SeaTurtle II detects when water bottle turns around.</li> <li>• <i>Close-to-bottom sampling:</i> Customer may tie the SeaTurtle String to a weight. SeaTurtle detects when the weight hits the sea-floor, samples temperature and pressure (depth) and then presents data on the display.</li> <li>• Profile data sampling interval user selectable from 250 ms to 8 s.</li> </ul>