X•Series is a family of sensor-Xchangeable oceanographic instruments that allows you to change an instrument’s sensor load in the field and on-demand.

With an X•Series instrument and Xchange™ field-swappable sensor heads, your CTD can become an SVTP, shallow range instruments can be made to go deep, and temperature range can be extended or tightened as needed.

X•Series lets you do more. All X•Series instruments share a common architecture, so any sensor head can be attached to any instrument, regardless of size or type: real-time probe, vertical profiler, or in-situ logger.

Total flexibility — of instrument model, of sensor type, and of sensor range — ensures that the right instrument is always available.

Key Benefits

- **Greater return on investment:** Each instrument can multi-task as CTD, SVTP, and many other configurations at multiple pressure ranges.

- **Right instrument always ready:** Calibrated sensors are shared amongst all X•Series instruments, ensuring that the right instrument is always field-ready.

- **Reduced downtime:** Recalibrated sensors sent to the instrument means the instrument never leaves the field for recalibration.

- **Greater system redundancy:** Mobility of sensor-heads and modularity of instruments minimizes the risk of downtime on the vessel.

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sound velocity / conductivity - temperature
pressure / turbidity / biofouling control

AML Oceanographic
Xchange your old ideas
## X•Series

**REAL-TIME**

<table>
<thead>
<tr>
<th>Model</th>
<th>Typical Applications</th>
<th>No. of Ports</th>
<th>Sensor Configuration</th>
<th>Size (dia. x length, mm)</th>
<th>Communications</th>
<th>Internal Logging</th>
<th>Input Voltage (v)</th>
<th>Optional Analog Inputs</th>
<th>Max Depth (m)</th>
<th>Weight in Air (kg)</th>
<th>Weight in Water (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MICRO•X</td>
<td>Sea chest or transducer mount</td>
<td>1</td>
<td>P1, S1</td>
<td>33 x 240</td>
<td>RS-232, RS-485</td>
<td>N</td>
<td>8-26</td>
<td>N/a</td>
<td>Acetal</td>
<td>500</td>
<td>0.24</td>
</tr>
<tr>
<td>SMART•X</td>
<td>AUV, glider or other vehicle</td>
<td>3</td>
<td>P1S2, P0S3</td>
<td>70 x 420</td>
<td>RS-232, RS-485</td>
<td>N</td>
<td>8-26</td>
<td>N/a</td>
<td>Acetal</td>
<td>500</td>
<td>0.73</td>
</tr>
<tr>
<td>METREC•X</td>
<td>Multi-parameter in-situ or ROV use</td>
<td>5</td>
<td>P2S2, P1S4</td>
<td>100 x 495</td>
<td>RS-232, RS-485</td>
<td>N</td>
<td>8-36</td>
<td>4</td>
<td>Acetal</td>
<td>7075 Alum</td>
<td>5.20</td>
</tr>
<tr>
<td>bathy-METREC•X</td>
<td>High accuracy bathymetry with Digiquartz®</td>
<td>5</td>
<td>P2S2, P1S4</td>
<td>100 x 495</td>
<td>RS-232, RS-485</td>
<td>N</td>
<td>8-36</td>
<td>2</td>
<td>7075 Alum</td>
<td>6000</td>
<td>5.00</td>
</tr>
</tbody>
</table>

**INTERNAL POWER**

<table>
<thead>
<tr>
<th>Model</th>
<th>Applications</th>
<th>No. of Ports</th>
<th>Sensor Configuration</th>
<th>Size (dia. x length, mm)</th>
<th>Communications</th>
<th>Internal Logging</th>
<th>Input Voltage (v)</th>
<th>Optional Analog Inputs</th>
<th>Max Depth (m)</th>
<th>Weight in Air (kg)</th>
<th>Weight in Water (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BASE•X2</td>
<td>Shallow water vertical profiling</td>
<td>2</td>
<td>P1S1</td>
<td>69 x 390</td>
<td>WiFi, RS-232, RS-485</td>
<td>Y</td>
<td>9-28</td>
<td>n/a</td>
<td>Acetal</td>
<td>100</td>
<td>1.17</td>
</tr>
<tr>
<td>MINOS•X</td>
<td>Vertical profiling</td>
<td>3</td>
<td>P1S2, P2S1</td>
<td>76 x 597</td>
<td>RS-232, RS-485, WiFi</td>
<td>Y</td>
<td>8-26</td>
<td>2</td>
<td>Acetal</td>
<td>1000</td>
<td>2.23</td>
</tr>
<tr>
<td>PLUS•X</td>
<td>Multi-parameter vertical profiling or in-situ</td>
<td>5</td>
<td>P2S2, P1S4</td>
<td>100 x 881</td>
<td>RS-232, RS-485, WiFi</td>
<td>Y</td>
<td>8-26</td>
<td>4</td>
<td>6061 Alum</td>
<td>5000</td>
<td>5.36</td>
</tr>
</tbody>
</table>

**Sensor Configurations**

- **P** type port is compatible with SV, C, and CT•Xchange™ sensors
- **S** type port is compatible with T, P, and Tu•Xchange™ sensors
- Numeric value is the quantity of ports of that type
- Example: P1S2 = 1 **P** type port and 2 **S** type ports
- Standard configurations listed. Inquire for additional options.

**Notes**

1. Overall length varies depending on Xchange™ sensor installed.
2. When Data•Xchange is attached
3. 15-36V with select altimeter options
4. Internally powered via battery with external power capability
5. Acetal, 500 m Micro•X available in S1 configuration only
6. Overall weight varies depending on Xchange™ sensors installed.