The Base•X is a rugged, shallow water logging instrument. Designed for profiling in coastal waters, the instrument includes a shackle, a sensor cage, and an LED status indicator to simplify deployment preparation. High-speed 25Hz sampling ensures excellent data resolution. The Base•X’s compact size and compatibility with AML’s Xchange™ sensor-head architecture make it the ideal companion for the shallow water hydrographic surveyor.

Like all other X•Series instruments, the Base•X uses Xchange™ field-swappable sensors. The Base•X is available for use with conductivity, sound velocity, temperature, pressure, and turbidity Xchange™ sensors. This means that sensor heads can be shared with other instruments, regardless of instrument size or type. Total flexibility - of instrument model, of sensor type, and of sensor range - ensures that the right instrument is always available.

Field-swappable sensors also streamline recalibration: instead of sending the entire instrument back to a recalibration centre, calibrated sensor-heads can be sent to the instrument. Changing sensors is easy: simply unscrew one sensor-head and replace it with another.
Key Benefits:

- 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.
- Reduction in transport and logistics costs: Instruments can be recalibrated without return to a calibration centre simply by swapping sensors.
- Greater system redundancy: Mobility of sensor-heads and modularity of instruments minimizes the risk of downtime on the vessel.
- Streamlined management: Less time spent administering instrument recalibration and certification requirements.

Xchange™ and X•Series:

- Each Xchange™ sensor-head includes its own embedded calibration
- Sensors exchange easily without use of speciality tools
- Swap any sensor with another sensor of its own kind, regardless of range

Data & Sampling:

- Auto detect RS232 or RS485 communications
- Scan up to 25 Hz
- User configurable sampling (by time, by pressure, or by sound speed)
- Real time clock
- Gigabyte non-volatile memory
- LED light status indicator

Power:

- Internal rechargeable Lithium-Ion battery
- 12 hours continuous use between charges
- Auto shut-down in low battery conditions
- Can be powered externally 7.5 to 26 VDC

Mechanical:

- Housing material is Acetal rated to 100m depth
- Stainless steel shackle point and sensor protection cage
- Size: Dia: 69mm (2.7”), OAL with Shackle: 388 mm (15.3”)
- Weight: in air: 1.2kg (2.6 lb), in water: 0.5kg (1.1 lb)
- Connector: Subconn Micro 8, Female
- Storage Temperature: -20°C to 60°C
- Operating Temperature: -20°C to 45°C

Software:

- Seacast software included for use on PC or laptop. Features of Seacast include instrument set up, calibration information, sampling mode selection, data review, graphing, and data export.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Range</th>
<th>Precision</th>
<th>Accuracy</th>
<th>Resolution</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>C•Xchange™</td>
<td>0 to 70 mS/cm</td>
<td>+/-0.003mS/cm</td>
<td>+/-0.01mS/cm</td>
<td>0.001mS/cm</td>
<td>25ms at 1m/s flow</td>
</tr>
<tr>
<td>SV•Xchange™</td>
<td>1375 to 1625 m/s</td>
<td>+/-0.006 m/s</td>
<td>+/-0.025 m/s</td>
<td>0.001 m/s</td>
<td>47 microseconds</td>
</tr>
<tr>
<td>P•Xchange™</td>
<td>up to 100 dBar</td>
<td>+/-0.03%FS</td>
<td>+/-0.05%FS</td>
<td>0.02%FS</td>
<td>10 milliseconds</td>
</tr>
<tr>
<td>T•Xchange™</td>
<td>-2 to 32°C</td>
<td>+/-0.003°C</td>
<td>+/-0.005°C</td>
<td>0.001°C</td>
<td>100 milliseconds</td>
</tr>
<tr>
<td>Turbidity•Xchange™</td>
<td>up to 3000 NTU</td>
<td>up to +/- 0.1NTU</td>
<td>up to +/- 1%NTU</td>
<td>up to 0.01NTU</td>
<td>&lt;0.7s</td>
</tr>
</tbody>
</table>

X•Series instruments do not come with sensor-heads; please order them separately. Other ranges are available; please contact us. All specifications subject to change without notice.

T: +1-250-656-0771  E: sales@AMLoceanographic.com
T: +1-800-663-8721 (NA)  W: www.AMLOceanographic.com
F: +1-250-655-3655