

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. 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, Base•X uses Xchange™ field-swappable sensors. 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.



C•Xchange™



SV•Xchange™



P•Xchange™



T•Xchange™



Turbidity•Xchange™

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 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.

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

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.

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