

Plus•X is a logger that allows you to change the instrument's sensor load, in the field and on demand. With Plus•X, your CTD can become an SVTP; shallow pressure sensors can be swapped for deep; and temperature range can be extended or tightened as needed. One single logger meets multiple deployment requirements.

Like all other X•Series instruments, Plus•X uses Xchange™ field-swappable sensors, now available for conductivity, sound velocity, temperature, pressure, and turbidity. 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 – ensure 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.

Plus•X offers high-speed 25Hz sampling, ensuring excellent data resolution. Plus•X also includes a deployment shackle and sensor cage, and can be ordered with additional analog or digital channels for use with 3rd party sensors.



C•Xchange™



SV•Xchange™



P•Xchange™



T•Xchange™



Tu•Xchange™

Key Benefits:

- Greater return on investment: Each instrument can multi-task as CTD or SVTP, at multiple pressure ranges, assuring greater usage .
- 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.
- 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
- Exchange conductivity with sound velocity, regardless of range
- Exchange pressure with temperature or turbidity, regardless of range

Data & Sampling:

- Gigabyte non-volatile memory
- Scan up to 25 Hz
- User configurable (by time, by pressure, by sound velocity)
- 8 to 26 VDC (external only)
- Auto detect RS232 or RS485
- Auto shut-down in low battery conditions
- Real time clock
- Additional channels (4 analog)

Power:

- 9 D cell Alkaline batteries
- 3, 6, or 9 D cell Lithium batteries
- 9 D cell Ni-Cad rechargeable batteries

Mechanical:

- Housing & End Cap: Hard anodized Aluminium 6061-T6 housing to 5000 m or 7075-T6 to 6000 m
- Size: 100 mm (4.0") diameter x 881 mm (34.9") OAL
- Weight: in air: 5.36 kgs (11.8 lbs), in water: 2.9 kgs (6.4 lbs)
- Connector: Subconn Micro 8
- Storage Temperature: -40°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 6000 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
Tu•Xchange™	up to 3000 NTU	up to +/- 3%NTU	up to +/- 3%NTU	up to 0.5NTU	
*Salinity (Calculated)	0 to 42 psu	+/-0.06psu	+/-0.01psu	0.001psu	<0.7s (3s to 95%)
*Density (Calculated)	990 to 1230kg/m³		+/- 0.027kg/m³	0.001kg/m³	

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.

*Calculated parameters are based on C•Xchange™, T•Xchange™ and installed pressure sensor.

T: +1-250-656-0771

E: sales@AMLOceanographic.com

T: +1-800-663-8721 (NA)

W: www.AMLOceanographic.com

F: +1-250-655-3655

2071 Malaview Avenue Sidney, British Columbia Canada, V8L 5X6

