

Xchange™ is the industry's only family of field-swappable sensor-heads. Available for Conductivity, Sound Velocity, Temperature, and Pressure, each sensor-head contains its own embedded calibration, and can be moved from instrument-to-instrument without impacting field accuracy. Changing sensors is easy: simply unscrew one sensor-head and replace it with another.



C•Xchange™



SV•Xchange™



P•Xchange™



T•Xchange™

Key Benefits:

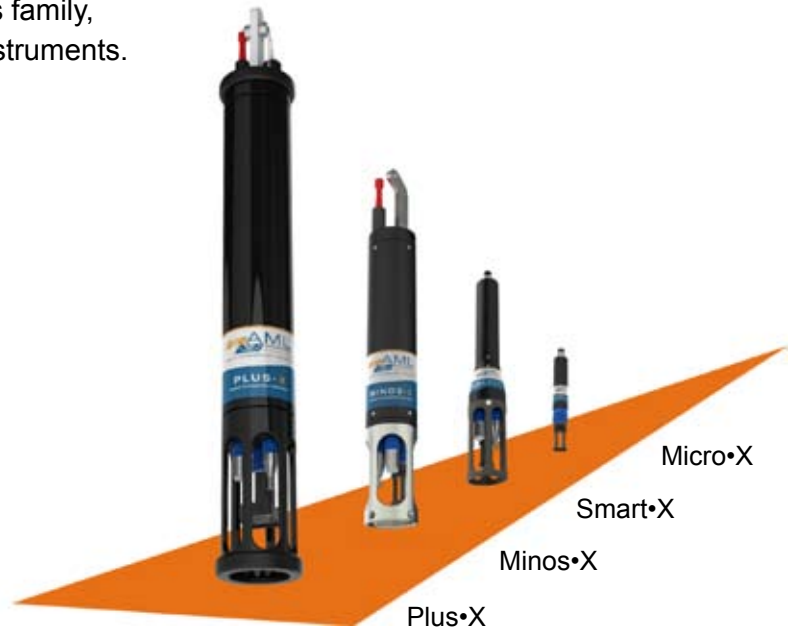
There are six advantages to the use of field-swappable sensor-heads. These include:

- Elimination of instrument downtime - that time when the instrument cannot be used because it is en-route from the vessel to recalibration, at the service centre for recalibration, or en-route to the vessel from recalibration. With Xchange™ sensors, recalibrated sensors are sent to the instrument, instead of sending the instrument to the recalibration centre;
- A reduction in transportation and logistics costs - shipping, couriers, duties, and brokerage fees - related to shipping large instruments back for recalibration. With Xchange™, small sensor-heads are shipped instead of heavy instruments;
- Increased flexibility for service managers, because a recalibration becomes a mobile asset, one that can be plugged into whichever instrument most urgently requires it. Field-swappable sensor-heads enable any organization - big or small - to become a virtual recalibration centre, simply by virtue of its ability to stock calibrated sensor-heads;
- Multi-range instruments - the ability to change sensor range on any instrument to suit specific deployment requirements. This means instrument duplicates (identical instruments dedicated to a different pressure range) become a thing of the past;
- Improvements in absolute pressure accuracy, resulting from the user's ability to tighten the dbar full scale of pressure measurement of any oceanographic instrument; and
- Greater system redundancy resulting from increased ease of deploying spare sensors into the field.

Because sensor-heads are field-swappable, and because all X-Series instruments share the same architecture, you can place which ever sensors you need on your instrument model of choice. Total flexibility - of instrument model, of sensor type, and of sensor range - ensures that the right instrument is always available.

Xchange™ sensor-heads are used exclusively with X-Series Sensor Xchangeable Instruments. Within the X-Series family, there are two real-time instruments and two logging instruments.

- The Micro•X is a single sensor real-time instrument often used in transducer mount or sea chest applications.
- The Smart•X is a real-time multi sensor probe designed for AUV, ROV, and other integration work. There are also two loggers in the X-Series family.
- The Minos•X is a small vertical profiler, ideal for work in confined spaces like small launches or boat.
- The Plus•X is a full-sized multi-parameter instrument ideal for profiling or in-situ studies.



All four of these instruments are compatible with the four Xchange™ field-swappable sensor-heads: SV•Xchange™, C•Xchange™, P•Xchange™, and T•Xchange™.

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
Salinity (Calculated)*	0 to 42 psu	+/-0.06psu	+/-0.01psu	0.001psu	
Density (Calculated)*	990 to 1230kg/m³		+/- 0.027kg/m³	0.001kg/m³	

Calculated parameters are based on C•Xchange™, T•Xchange™ and P•Xchange™ sensor-heads. Other ranges are available; please contact factory. All specifications subject to change without notice.



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