Xchange™

Field-Swappable Sensors

C•Xchange™

SV•Xchange™

P•Xchange™

T•Xchange™

DO•Xchange™

Turbidity •Xchange™

Xchange™ is the industry's only family of field-swappable sensor-heads. Available for conductivity, sound velocity, temperature, pressure, dissolved oxygen and turbidity, 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.

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 whichever 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 three externally powered instruments and two battery powered instruments.

Micro•X:

- The Micro-X is an externally powered, real-time, single sensor instrument often used in transducer mount applications.

Smart•X:

- The Smart-X is an externally powered, real-time, three sensor instrument designed for sea chest, AUV, or glider applications.

Metrec•X:

- The Metrec-X is an externally powered, five sensor data logger that is ideal for multi-parameter studies and ROV work.

Minos•X:

- The Minos-X is a small, battery powered vertical profiler, frequently chosen for work in confined spaces like small launches or boats.

Plus•X:

- The Plus-X is a full-sized, battery powered data logger that is ideal for multi-parameter vertical profiling or in-situ work.

All five of these instruments are compatible with the six Xchange™ field-swappable sensor-heads: SV•Xchange™, C•Xchange™, P•Xchange™, T•Xchange™, DO•Xchange™ and Turbidity•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
**DO-Xchange™	0 to 50 mg/L		<5%mg/L	0.1mg/L	
Turbidity-Xchange™	up to 3000 NTU	up to +/- 0.1NTU	up to +/- 1%NTU	up to 0.01NTU	<0.7s (3s to 95%)

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.
**Pre-release specifications - final specifications to be determined.

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