

Metrec•X is an externally-powered, multi-parameter instrument that allows you to change the instrument's sensor load, in the field and on-demand. Metrec•X can accommodate as many as five Xchange™ sensor-heads on the end-cap, allowing you to configure the focus of your research on an application by application basis. The instrument can log data and/or output data in real-time.

With Metrec•X, conductivity can be swapped for sound velocity; shallow pressure sensors can be swapped for deep; and temperature range can be extended or tightened, as needed. One single instrument meets multiple deployment requirements.

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.

Metrec•X can be ordered with additional analog channels for use with 3rd party sensors. It is also available with UV•Xchange™ to prevent biofouling during in-situ deployments.



C•Xchange™



SV•Xchange™



P•Xchange™



T•Xchange™



Tu•Xchange™



UV•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.
- Biofouling control: UV•Xchange™ prevents biofouling of sensors, enhancing in-situ CTD performance.

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 and turbidity, regardless of range

Data & Sampling:

- Gigabyte non-volatile memory
- Scan up to 25 Hz
- User configurable (by time, by pressure, by sound velocity)
- 10 to 36 VDC (external only)
- Auto detect RS232 or RS485
- Real time clock
- Additional analog channels (4), optional

Mechanical:

- Housing & End Cap: Hard anodized Aluminium 7075-T6 housing to 6000 m
- Size: 100 mm (4.0”) diameter x 495 mm (19.4”) OAL
- Weight: in air: 5 kgs (11 lbs), in water: 3 kgs (6.6 lbs)
- Connector: Subconn MCBH-8FS
- 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™					
¹ 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	<0.7s (3s to 95%)
² Salinity (Calculated)	0 to 42 psu	+/-0.06psu	+/-0.01psu	0.001psu	
² Density (Calculated)	990 to 1230kg/m ³		+/- 0.027kg/m ³	0.001kg/m ³	

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.

¹ Stability is +/-0.003 mS/cm/month when combined with UV•Xchange.

² Calculated parameters are based on C•Xchange™, T•Xchange™ and installed pressure sensor.

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