

The Micro•X is a real-time, single parameter instrument that allows you to field-swap the instrument's sensor-load. Unlike other X•Series instruments, the Micro•X is sensor specific, meaning that sensor type cannot be changed. However, within a given sensor type, range can be swapped, a feature that is particularly useful in depth measurement applications.

Moreover, a sensor-head with an outdated calibration can be swapped with a sensor-head that has been recently recalibrated. Field-swappable sensor-heads streamline the recalibration process: 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.

Like all other X• Series instruments, the Micro•X uses Xchange™ field-swappable 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 – ensure that the right instrument is always available.

Designed for integration applications such as AUV or ROV work, the Micro•X with a sound velocity sensor is also effective for sea surface sound velocity applications. The Micro•X offers high-speed 25Hz sampling, ensuring excellent data resolution.



C•Xchange™



SV•Xchange™



P•Xchange™



T•Xchange™

Key Benefits:

- Greater flexibility: Each instrument can multi-task at multiple 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™ Field Swappable Sensors:

- Unlike other X•Series instruments, the Micro•X is sensor specific, meaning that sensor type cannot be changed
- Field-swap any sensor with another sensor of its own kind, regardless of range
- Each Xchange™ includes its own embedded calibration
- Sensors exchange without use of tools

Electrical:

- Up to 25 scans per second
- Factory Set RS232 or RS485
- Externally Powered 8-26 VDC

Sampling Modes:

- User configurable (by time, by pressure, by sound speed)

Mechanical:

- Housing: Delrin to 500 m or Titanium to 10,000 m
- Size: 33 mm (1.3") diameter x 246 mm (9.5") OAL
- Connectors: Micro 6, Female
- Storage Temperature: -40°C to 60°C
- Operating Temperature: -20°C to 45°C

Accessories:

- Instrument suspension bar
- Instrument protection frame
- Mounting brackets
- Data/Power cable, various lengths 2m and greater

Parameter	Range	Precision	Accuracy	Resolution	Response
Xchange™					
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

X•Series instruments do not come with sensor-heads; please order them separately.
Other ranges are available; please contact factory. All specifications subject to change without notice

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