

Minos•X is a small vertical profiler that allows you to change the instrument's sensor load, in-the-field and on-demand. With Minos•X, your SVPT can become a CTD; Shallow pressure sensors can be swapped for deep; and temperature range can be extended or tightened, as needed. One single profiler meets multiple deployment requirements.

Like all other X•Series instruments, Minos•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.

Half the size of a Plus•X instrument, Minos•X is designed for vertical profiling in tight spaces like launches or boats. The instrument includes a shackle and sensor cage, as well as an LED status indicator to simplify deployment preparation. High-speed 25Hz sampling ensures excellent data resolution. Minos•X can be ordered with up to 2 analog channels for use with 3rd party sensors.



C•Xchange™



SV•Xchange™



P•Xchange™



T•Xchange™



Turbidity•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:

- Auto detect RS232 or RS485 communications
- Scan up to 25 Hz
- User configurable sampling (by time, by pressure, or by sound speed)
- Real time clock
- LED light status indicator
- Gigabyte non-volatile memory (expandable)
- Optional additional channels (2 analog)

## Power:

- Internal rechargeable Lithium-Ion battery
- 24+ hours continuous use between charges
- Auto shut-down in low battery conditions
- Can be powered externally 7.5 to 26 VDC

## Mechanical:

- Housing & Endcap: Delrin to 1000m or Titanium to 6000m
- Stainless steel shackle point and sensor protection cage
- Size: Dia: 75.7 mm (2.98"), OAL with Shackle: 566 mm (22.3")
- Connector: Subconn Micro 8, Female
- Storage Temperature: -20°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
<b>Xchange™</b>					
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
Turbidity•Xchange™	up to 3000 NTU	up to +/- 3%NTU	up to +/- 3%NTU		<0.7s (3s to 95%)
*Salinity (Calculated)	0 to 42 psu	+/-0.06psu	+/-0.01psu	0.001psu	
*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.

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

Other ranges are available; please contact us. All specifications subject to change without notice.

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