

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 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™



Tu•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")
- Weight (Delrin): in air: 2.2 kgs (4.8 lbs), in water: 0.7 kgs (1.5 lbs)
- Weight (Titanium): in air: 4.6 kgs (10 lbs), in water: 3.1 kgs (6.8 lbs)
- 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 |
|------------------------|------------------|-----------------|-----------------|------------|-------------------|
| 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 |
| Tu•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.

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

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

T: +1-250-656-0771

E: sales@AMLOceanographic.com

T: +1-800-663-8721 (NA)

W: www.AMLOceanographic.com

F: +1-250-655-3655

2071 Malaview Avenue Sidney, British Columbia Canada, V8L 5X6

