

X•Series is a family of sensor-Xchangeable oceanographic instruments that allows you to change an instrument's sensor load in the field and on-demand.

With an X•Series instrument and Xchange™ field-swappable sensor heads, your CTD can become an SVTP, shallow range instruments can be made to go deep, and temperature range can be extended or tightened as needed.

X•Series lets you do more. All X•Series instruments share a common architecture, so any sensor head can be attached to any instrument, regardless of size or type: real-time probe, vertical profiler, or in-situ logger.

Total flexibility – of instrument model, of sensor type, and of sensor range – ensures that the right instrument is always available.



Key Benefits

- **Greater return on investment:** Each instrument can multi-task as CTD, SVTP, and many other configurations at multiple pressure ranges
- **Reduced downtime:** Recalibrated sensors sent to the instrument means the instrument never leaves the field for recalibration
- **Right instrument always ready:** Calibrated sensors are shared amongst all X•Series instruments, ensuring that the right instrument is always field-ready
- **Greater system redundancy:** Mobility of sensor-heads and modularity of instruments minimizes the risk of downtime on the vessel

conductivity / sound velocity / pressure
temperature / turbidity / biofouling control

		<i>Typical Applications</i>	Max No. of Sensors	Sensor Configuration	Size (dia. x length, mm)	Communications	Internal Logging	Input Voltage (v)	Optional Analog Inputs	Materials	Max Depth (m)	Weight in Air (kg) ³	Weight in Water (kg)
REAL-TIME	MICRO•X	Sea chest or transducer mount	1	P1 or S1	33 x 240 ²	RS-232, RS-485	N	8-26	n/a	Acetal	500	0.24	0.09
										Titanium	6000	0.39	0.25
	SMART•X	AUV, glider or other vehicle	3	P1S2	70 x 420	RS-232, RS-485	N	8-26	n/a	Acetal	500	0.85	0.10
										Titanium	6000	1.94	1.10
METREC•X	ROV or other multi-parameter	5	P2S2, P1S4	100 x 495	RS-232, RS-485	Y	8-36 ⁴	4	7075 Alum	6000	5.00	3.00	
bathy-METREC•X	High accuracy bathymetry with DigiQuartz®	5	P2S2, P1S4	100 x 495	RS-232, RS-485	Y	8-36 ⁴	2	7075 Alum	6000	5.00	3.00	
INTERNAL POWER	BASE•X	Shallow water vertical profiling	2	P1S1	69 x 390	RS-232, RS-485	Y	8-26 ¹	n/a	Acetal	100	1.20	0.50
										Acetal	1000	2.22	0.70
	MINOS•X	Vertical profiling	3	P1S2	76 x 565	RS-232, RS-485	Y	8-26 ¹	2	Titanium	6000	4.63	3.11
										6061 Alum	5000	5.36	2.91
PLUS•X	Multi-parameter vertical profiling or in-situ	5	P2S2, P1S4	100 x 881	RS-232, RS-485	Y	8-26 ¹	4	7075 Alum	6000	5.36	2.91	

Sensor Configurations:

“P” type port is compatible with SV and C•Xchange™ sensors
 “S” type port is compatible with T, P, and Turbidity•Xchange™ sensors
 Numeric value is the quantity of ports of that type
 Example: P1S2 = 1 “P” type port and 2 “S” type ports

Note:

¹ Internally powered via battery with external power capability
² Overall length varies depending on Xchange™ sensor installed
³ Overall weight varies depending on Xchange™ sensor installed
⁴ 15-36V with select altimeter options

X•Series and Xchange™ Functionality Summary

Xchange™ sensor heads are used on all X•Series instruments. Smart•X, Minos•X, Plus•X, Base•X and Metrec•X allow users to field-swap any sensor with another sensor of its own kind, regardless of range, as well as to exchange conductivity with sound velocity OR pressure with temperature or turbidity. Micro•X allows users to field-swap any sensor with another sensor of its own kind, regardless of range.

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