



**CT•Xchange™**



**SV•Xchange™**



**P•Xchange™**



**C•Xchange™**



**T•Xchange™**



**Tu•Xchange™**

Xchange™ is the industry's only family of field-swappable sensor heads. Each sensor head contains its own embedded calibration, and can be moved from instrument to instrument without impacting field accuracy. Changing sensors is easy: simply unscrew one sensor head and replace it with another.

#### Key Benefits:

- Elimination of instrument downtime - time when the instrument cannot be used because it is en-route from the vessel to recalibration, at the service centre for recalibration, or en-route to the vessel from recalibration. With Xchange™ sensors, recalibrated sensors are sent to the instrument, instead of sending the instrument to the recalibration centre.
- Reduction in transportation and logistics costs - shipping, couriers, duties, and brokerage fees - related to shipping large instruments back for recalibration. With Xchange™, small sensor heads are shipped instead of heavy instruments.
- Increased flexibility for service managers, because a recalibration becomes a mobile asset that can be plugged into any X•Series instrument. Field-swappable sensor heads enable any organization - big or small - to become a virtual recalibration centre by stocking spare calibrated sensor heads.
- Multi-range instruments - the ability to change sensor range on any instrument to suit specific deployment requirements. This means instrument duplicates (identical instruments dedicated to different pressure ranges) become a thing of the past.
- Improved absolute pressure accuracy. You may choose the best full scale pressure range to suit your deployment depth.
- Greater system redundancy resulting from the ease of deploying spare sensors into the field.

All X•Series instruments share the same architecture, allowing you to place whichever sensors you need on your instrument model of choice. Total flexibility of instrument model, sensor type, and sensor range ensures that the right instrument is always available.

Xchange™ sensor heads are used exclusively with X•Series Sensor Xchangeable Instruments. Please refer to the X•Series Family Brochure for a list of instruments, applications, and specifications.

## Available Xchange™ Sensors

	UPC Code	Port Type	Maximum Depth (m)	Range	Precision (+/-)	Accuracy (+/-)	Resolution	Response Time	Notes
C•Xchange™ Conductivity Sensor	XCH-CND-RA002	P	6000	0-2 mS/cm	0.003 mS/cm	0.01 mS/cm <sup>5</sup>	0.001 mS/cm	25 ms <sup>6</sup>	Right Angle Flow
	XCH-CND-RA090			0-90 mS/cm <sup>1</sup>					Straight Flow
	XCH-CND-ST090								
CT•Xchange™ Conductivity Temperature Sensor	XCH-CT-RA-090-n545	P	6000	CND: 0-90 mS/cm <sup>1</sup> TMP: -5-45 °C <sup>2</sup>	CND: 0.003 mS/cm TMP: 0.003 °C	CND: 0.01 mS/cm <sup>5</sup> TMP: 0.005 °C	CND: 0.001 mS/cm TMP: 0.001 °C	CND: 25 ms <sup>6</sup> TMP: 100 ms	Combined Conductivity & Temperature
SV•Xchange™ Sound Velocity Sensor	XCH-SV-STD	P	6000	1375-1625 m/s	0.006 m/s	0.025 m/s	0.001 m/s	47 µs	Typical Oceanographic
	XCH-SV-1120			1100-2000 m/s	0.02 m/s	0.5 m/s			Brine Solutions
	XCH-SV-0520			500-2000 m/s	1.0 m/s	Special fluids			
P•Xchange™ Pressure Sensor	XCH-PRS-0050	S	50	0-50 dBar	0.03% FS	0.05% FS	0.02% FS	10 ms	Piezo-Resistive
	XCH-PRS-0100		100	0-100 dBar					
	XCH-PRS-0200		200	0-200 dBar					
	XCH-PRS-0500		500	0-500 dBar					
	XCH-PRS-1000		1000	0-1000 dBar					
	XCH-PRS-2000		2000	0-2000 dBar					
	XCH-PRS-4000		4000	0-4000 dBar					
	XCH-PRS-5000		5000	0-5000 dBar					
	XCH-PRS-6000		6000	0-6000 dBar					
T•Xchange™ Temperature Sensor	XCH-TMP-n232	S	6000	-2-32 °C	0.003 °C	0.005 °C	0.001 °C	100 ms	Typical Oceanographic
	XCH-TMP-n545			-5-45 °C <sup>2</sup>					Extended Oceanographic
Tu•Xchange™ Turbidity Sensor	XCH-TRB-A3000-03	S	300	0-3000 NTU <sup>3</sup>	0.5% reading or 0.1 NTU <sup>4</sup>	2% reading or 0.2 NTU <sup>4</sup>	0.01 NTU	<0.7 s	Auto-ranging
	XCH-TRB-A3000-02W		200						Auto-ranging Wiper-equipped

X•Series instruments and sensor heads must be ordered separately. All specifications subject to change without notice.

<sup>1</sup> Will over-range to 100 mS/cm. Inquire for specifications.

<sup>2</sup> Will over-range to 60 °C. Inquire for specifications.

<sup>3</sup> Digital auto-ranging

<sup>4</sup> Whichever is greater

<sup>5</sup> Stability is +/-0.003 mS/cm/month when combined with UV•Xchange™

<sup>6</sup> At 1 m/s flow

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