



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 list of instruments, applications, and specifications.

All X•Series instruments are compatible with the five Xchange™ field-swappable sensor-heads: SV•Xchange™, C•Xchange™, P•Xchange™, T•Xchange™, and Tu•Xchange™.

Available Xchange™ Sensors:

	UPC Code	Port Type	Maximum Depth (m)	Range	Precision	Accuracy	Resolution	Response Time	Notes
C•Xchange™ Conductivity Sensor	XCH-CND-RA070	P	6000	0-70 mS/cm	0.003 mS/cm	0.01 mS/cm ³	0.001 mS/cm	25 ms ⁵	Right Angle Flow
	XCH-CND-RA002	P	6000	0-2 mS/cm	0.003 mS/cm	0.01 mS/cm ³	0.001 mS/cm	25 ms ⁵	Right Angle Flow
	XCH-CND-RA090	P	6000	0-90 mS/cm	0.003 mS/cm	0.01 mS/cm ³	0.001 mS/cm	25 ms ⁵	Right Angle Flow
	XCH-CND-ST002	P	6000	0-2 mS/cm	0.003 mS/cm	0.01 mS/cm ³	0.001 mS/cm	25 ms ⁵	Straight Flow
	XCH-CND-ST070	P	6000	0-70 mS/cm	0.003 mS/cm	0.01 mS/cm ³	0.001 mS/cm	25 ms ⁵	Straight Flow
	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	P	6000	1100-2000 m/s	0.02 m/s	0.5 m/s	0.001 m/s	47 μs	Brine Solutions
	XCH-SV-0520	P	6000	500-2000 m/s	0.02 m/s	1.0 m/s	0.001 m/s	47 μs	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	S	100	0-100 dBar	0.03% FS	0.05% FS	0.02% FS	10 ms	Piezo-Resistive
	XCH-PRS-0200	S	200	0-200 dBar	0.03% FS	0.05% FS	0.02% FS	10 ms	Piezo-Resistive
	XCH-PRS-0500	S	500	0-500 dBar	0.03% FS	0.05% FS	0.02% FS	10 ms	Piezo-Resistive
	XCH-PRS-1000	S	1000	0-1000 dBar	0.03% FS	0.05% FS	0.02% FS	10 ms	Piezo-Resistive
	XCH-PRS-2000	S	2000	0-2000 dBar	0.03% FS	0.05% FS	0.02% FS	10 ms	Piezo-Resistive
	XCH-PRS-4000	S	4000	0-4000 dBar	0.03% FS	0.05% FS	0.02% FS	10 ms	Piezo-Resistive
	XCH-PRS-5000	S	5000	0-5000 dBar	0.03% FS	0.05% FS	0.02% FS	10 ms	Piezo-Resistive
	XCH-PRS-6000	S	6000	0-6000 dBar	0.03% FS	0.05% FS	0.02% FS	10 ms	Piezo-Resistive
	XCH-PRS-6000-T065	S	6000	0-6000 dBar	0.03% FS	0.05% FS	0.02% FS	10 ms	Piezo Resistive, 0-65°C Cal
	XCH-PRS-6300	S	6300	0-6300 dBar	0.03% FS	0.05% FS	0.02% FS	10 ms	Piezo-Resistive
	XCH-PRS-10000	S	10,000	0-10,000 dBar	0.03% FS	0.05% FS	0.02% FS	10 ms	Piezo-Resistive
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	S	6000	-5-45°C	0.003°C	0.005°C	0.001°C	100 ms	Extended Oceanographic
	XCH-TMP-065	S	6000	0-65°C	0.003°C	0.005°C	0.001°C	100 ms	Special Environments
Tu•Xchange™ Turbidity Sensor	XCH-TRB-0100-03 (05) ¹	S	300 (500) ²	0-100 NTU	0.1 NTU	1% reading or 0.1 NTU ⁴	0.01 NTU	<0.7 s	Typical Oceanographic
	XCH-TRB-0400-03 (05) ¹	S	300 (500) ²	0-400 NTU	0.2 NTU	1% reading or 0.2 NTU ⁴	0.01 NTU	<0.7 s	Typical Oceanographic
	XCH-TRB-1000-03 (05) ¹	S	300 (500) ²	0-1000 NTU	0.5 NTU	2% reading or 0.5 NTU ⁴	0.1 NTU	<0.7 s	Very High Turbidity
	XCH-TRB-3000-03 (05) ¹	S	300 (500) ²	0-3000 NTU	1 NTU	5% reading or 1.0 NTU ⁴	0.1 NTU	<0.7 s	Extreme Turbidity

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

¹ 05 replaces 03 in UPC code for 500m option.

² Standard (Optional)

³ Stability is +/-0.003 mS/cm/month when combined with UV•Xchange™

⁴ Whichever is Greater

⁵ At 1 m/s flow

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