

MetrecX

Deployed long term in-situ or on an ROV, versatile MetrecX can adapt to the focus of each individual project.





Greater return on investment



Reduced downtime



Right instrument always ready



Greater system redundancy

Take advantage of Xchange sensors' field swappability with Metrec-X: Configure the focus of your research on an application by application basis. One instrument meets multiple deployment requirements.

Need a high performance in-situ CTD? Deploy MetrecX with UVXchange the biofouling control technology proven to expand monitoring timelines, reduce maintenance costs, and ensure superior sensor performance. By eliminating

biofouling-induced drift, UVXchange allows sensors to perform to their full potential on in-situ instruments. A copper nickel alloy cage option (shown) is available for incidental biofouling protection.

Real-time MetrecX is also ideal for use on ROVs. Large enough to accommodate up to five sensors on the endcap, yet small enough to integrate easily into most vehicles.

Instrument specs

Recommended applications	buoy / in-situ deployments coastal monitoring ROV integration
Sensor ports	4 or 5
Optional remote sensor ports	4
Depth rating	500 m 6000 m
Housing material	500 m: acetal 6000 m: anodized aluminum 7075
Sensor cage material	500 m: acetal 500 m: copper (optional upgrade)
Shackle	optional
Communications	RS-232 RS-485
Baud rate	19200 9600 38400
Power source	external
Data / power connector	SubConn MCBH8F

Data output	real-time output
Input voltage	10 - 36 V
Length	482 mm
Diameter	100 mm
Biofouling control	optional upgrade

Available Xchange sensors

	Maximum depth (m)	Range	Precision (+/-)	Accuracy (+/-)	Resolution	Response time
CXchange conductivity sensor	6000	0 - 2 mS/cm 0 - 90 mS/cm	0.003 mS/cm	0.01 mS/cm	0.001 mS/cm	25 ms
CTXchange conductivity temperature sensor	6000	CND: 0 - 90 mS/cm TMP: -5 - 45 °C	CND: 0.003 mS/cm TMP: 0.003 °C	CND: 0.01 mS/cm TMP: 0.005 °C	CND: 0.001 mS/cm TMP: 0.001 °C	CND: 25 ms TMP: 100 ms
SVXchange sound velocity sensor	6000	1375 - 1625 m/s 1100 - 2000 m/s 500 - 2000 m/s	0.006 m/s 0.02 m/s	0.025 m/s 0.5 m/s 1.0 m/s	0.001 m/s	20 ms
PXchange pressure sensor	50 100 200 500 1000 2000 4000 5000 6000	0 - 50 dBar 0 - 100 dBar 0 - 200 dBar 0 - 500 dBar 0 - 1000 dBar 0 - 2000 dBar 0 - 4000 dBar 0 - 5000 dBar 0 - 6000 dBar	0.03 % FS	0.05 % FS	0.02 % FS	10 ms
TXchange temperature sensor	6000	-5 - 45 °C	0.003 °C	0.005 °C	0.001 °C	100 ms
TuXchange turbidity sensor	300 200	0 - 3000 NTU	0.5 % reading or 0.1 NTU	2 % reading or 0.2 NTU	0.01 NTU	< 0.7 s