

100 SERIES CT SENSORS

TEMPERATURE • SALINITY

Research-quality temperature and salinity measurements from a compact and rugged sensor designed specifically to integrate with your mobile platform. Our original conductivity-temperature (CT) sensor consists of an externally-mounted CT cell and an internally-mounted precision electronics board. Available in several rectangular and cylindrical form factors to suit your application. Connect via cable with a user-specified connector.



TECHNICAL SPECIFICATIONS

Physical

Housing	Plastic, fully potted
Max Depth	6750 dbar (9800 psi)
PCB Length	6.00 in (152.4 mm)
PCB Width	1.85 in (47.0 mm)
PCB Height	0.75 in (19.1 mm)
PCB Weight (air)	76 g

Model 101 Rectangular CT Sensor

Length	5.50 in (139.7 mm)
Width	1.20 in (30.5 mm)
Height	1.55 in (39.4 mm)
Typical Weight (air)	188 g

Model 102 Rectangular CT Sensor

Length	5.29 in (134.4 mm)
Width	1.16 in (29.5 mm)
Height	1.55 in (39.4 mm)
Typical Weight (air)	180 g

Model 103 Cylindrical CT Sensor

Diameter	3.00 in (76.2 mm)
Height	2.00 in (50.8 mm)
Assumed Hull Diameter	7.5 in (190.5 mm)
Typical Weight (air)	240 g

Electrical

Input Power	12 VDC +/- 10%
Power Consumption	Max 30 mA / 36 mW @12V

Communications and Sampling

Protocol	RS-232, 8-N-1
Speed	9600 to 19,200 baud
Recursive Filtering	0 to 9 samples
Sample Output Rate	Standard 5 Hz Configurable 0.5 Hz - 10 Hz

Temperature

Standard Range	0°C to 30°C
Extended Range	-5°C to 60°C
Initial Accuracy	0.002°C
Resolution	0.0001°C
Time Constant	0.4 s

Conductivity

Standard Range	0 to 60 mS/cm
Initial Accuracy	0.01 mS/cm
Resolution	0.0001 mS/cm
Electrodes	99.95% pure platinum

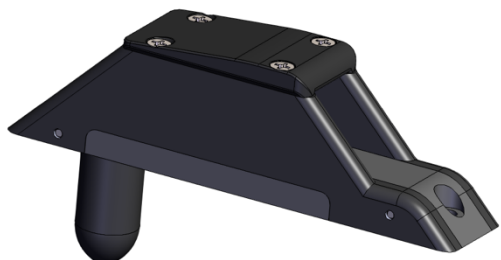
Options

Modular Connectors	Impulse MKS(W)-307 SubConn MCIL6M, MCIL8M Others On Request
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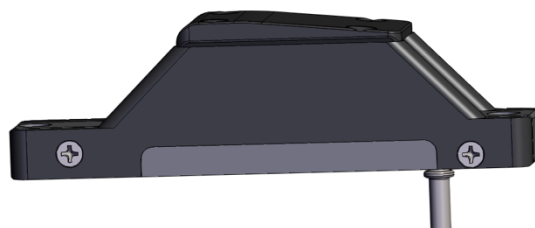
THE CTD FOR YOUR AUV
SMALL. ACCURATE. RUGGED. RELIABLE.



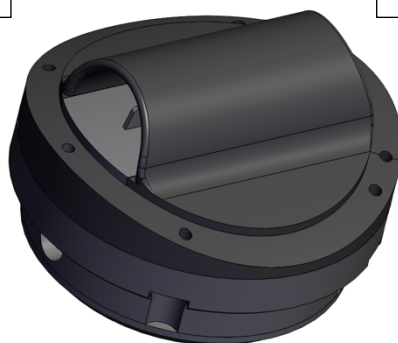
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Model 101 CT Sensor
Rectangular, Sloped Ends

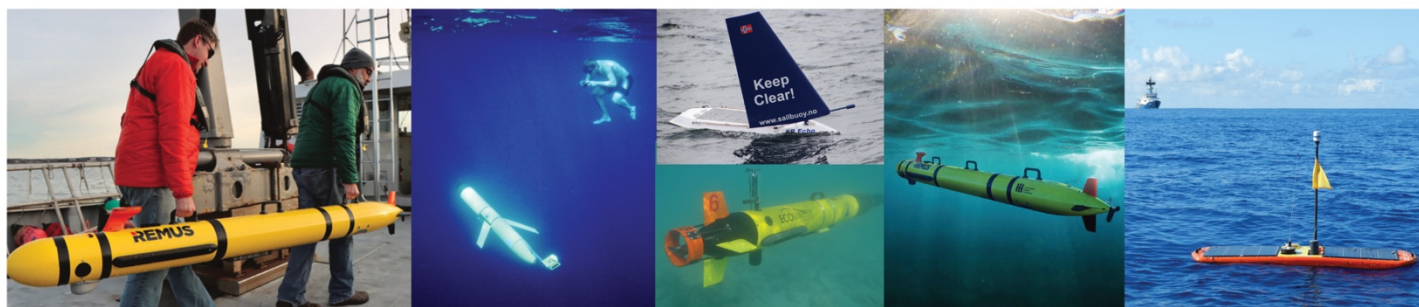


Model 102 CT Sensor
Rectangular, Blunt Ends



Model 103 CT Sensor
Cylindrical, Two-Piece Flush Mount

Since 2004 NBOSI has delivered nearly 1000 sensor systems to leaders in ocean research, industry and defense.



NBOSI

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