

THE CTD FOR YOUR AUV

SMALL. ACCURATE. RUGGED. RELIABLE.



500 Series CTD Sensors

TEMPERATURE • SALINITY • DEPTH • SOUND SPEED • DENSITY

NBOSI's latest CTD combines miniaturized precision electronics with a compact and rugged sensor body to deliver real-time, research-quality ocean data in an easy-to-integrate package. With no interior dry volume required, initial installation, routine calibration and spares inventories are streamlined.

Available in both rectangular and cylindrical form factors. The two-piece cylindrical design (sensor + shroud) facilitates a low-profile hydrodynamic installation in a flooded hull segment. The shroud can be adapted to match a range of hull diameters. Available cabled with a user-defined connector, with a bulkhead connector or with a custom through-hull penetrator engineered to fit your platform.



See our complete configuration matrix, sensor drawings, and downloadable CAD models at nbosi.com

TECHNICAL SPECIFICATIONS

Electrical

Input Power	4.5 VDC to 28 VDC
Power Consumption	21 mA / 156 mW @ 12V
Connections	Power (2), Data (2)

Communications and Sampling

Protocol	RS-232, 8-N-1
Speed	9600 to 115,200 baud
Sample Output Rate	0.5 Hz - 10 Hz

Options

Modular Connectors	SubConn MCIL6M SubConn MCBH6F Impulse MKS(W)-307 Others On Request
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Temperature

Standard Range	0°C to 30°C
Extended Range	-5°C to 60°C
Initial Accuracy	0.002°C (typical) 0.005°C (max)
Resolution	0.0001°C
Time Constant	0.4 s

Conductivity

Standard Range	0 to 60 mS/cm
Initial Accuracy	0.005 mS/cm (typical) 0.01 mS/cm (max)
Resolution	0.0001 mS/cm
Electrodes	99.95% pure platinum

Pressure

Sensor	Keller PA 7LD
Available Ranges	30 to 200 dbar
Initial Accuracy	0.15% of full-scale
Overpressure	4 x pressure range

NBOSI

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