

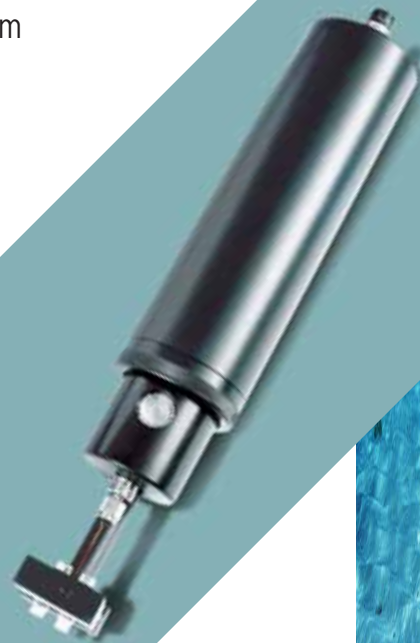
# Micro CTD

## The Outstanding Choice for AUVs, ROVs, Tow Bodies, and Other Mobile Platforms

The Micro CTD was designed specifically for use on mobile platforms. The Micro's small size & mechanical flexibility ensure excellence of fit with any host. With 25Hz sampling and rapid sensor response times, the instrument provides highly granular data even in high-speed applications. Low power requirements make the Micro CTD a natural choice for systems on tight power budgets.

### Standard Features:

- Small size: diameter of 50 mm (1.98") and length of 316 mm (12.54")
- Flexibility: C & T sensors available in four different physical lay-outs
- High speed, user selectable sampling rates to 25 Hz
- Sensor response times between 10ms and 100ms
- Low power requirements with no pumps required
- 4 Cell Conductive Conductivity sensor, +/- 0.005 mS/cm (precision)
- Temp compensated pressure sensor, +/- 0.03%FS (precision)
- Temperature sensor, +/-0.003°C (precision)
- User configurable comms settings (RS232 or RS485) & baud rates
- Housings: Delrin to 500m or stainless steel to 4500m
- Programmable sampling parameters
- One year warranty



# Micro CTD

The Outstanding Choice  
for Mobile Platforms

To meet the specific requirements of each mobile platform, the Micro CTD offers four different sensor mount approaches. They include:

- in-line end-cap, water flow parallel to instrument housing
- in-line end-cap, water flow perpendicular to instrument housing
- right angle end-cap, water flow parallel to instrument housing
- right angle end-cap, water flow perpendicular to instrument housing

## Electrical:

- 16 bit analog to digital resolution (65,536 counts)
- Up to 25 scans per second
- Real time clock
- 8 to 16VDC (external)
- User configurable comm settings (RS232 or RS485)
- Auto shut-down in low battery conditions

## Options:

- 3 cell Lithium battery pack (optional, available in second pressure housing)
- 128 Mb memory
- Additional analog (2) or digital (1) channels

## Sampling Modes:

- Continuous, defined increments of time, at specific pressures, or upon request

## Mechanical:

- Copolymer Acetal (Delrin) to 500m or Stainless Steel to 4500m
- 50mm / 1.98" (diameter) x 316mm / 12.54" (end-to-end, real-time version)
- Connectors: Subconn Micro 8 wet pluggable
- Environmental: Storage, -40°C to 60°C; Usage, -20°C to 45°C

## Accessories:

- Instrument suspension bar
- Instrument suspension bar with protective cage
- Mounting bracket

## Additional Information:

- The Micro CTD is available in various configurations; visit our website for details. Specifications subject to change without notice. Document version 1.05.

		Range	Precision	Accuracy	Response	Resolution
Standard Sensors	Conductive Conductivity (4 Electrode)	0 to 70 mS/cm	+/-0.005 mS/cm	+/-0.01 mS/cm	25 milliseconds at 1 m/s flow	0.001 mS/cm
	Temperature	-2 to 32°C	+/-0.003°C	+/-0.005°C	100 milliseconds	0.001°C
	Pressure (Strain Gauge)	Various to 6000m	+/-0.03%FS	+/-0.05%FS	10 milliseconds	0.005%FS
Calculated Parameters	Salinity	0 to 40 psu	+/-0.005 psu	+/-0.01 psu		0.001 psu
	Density	990 to 1200 kg/m <sup>3</sup>		+/- 1.5g/m <sup>3</sup>		0.06 g/m <sup>3</sup>

**APPLIED** Because it's not just   
**MICROSYSTEMS**

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