

MicroCTD

Estuarine Turbulence Profiler



DESCRIPTION

The MicroCTD is a turbulence and CTD profiler for lakes, reservoirs and estuaries.

The MicroCTD was designed in consultation with estuarine physicists for turbulence measurements in the unique operating environments of tidally influenced shallow waters. The profiler is shortened in length so that it can be easily handled on small vessels, e.g. Zodiac, while maximizing the profiling range in the water column.

The MicroCTD uses the same microstructure sensor suite as the VMP series of profilers, with an oceanographic reference CT sensor now included as standard.



CONFIGURATION

Standard Sensors	2x Shear Probe, 1x Micro-temperature (FP07), 2x Vibration Sensors, 1x Pressure, 1x Tilt Sensor, Conductivity-temperature Combo Sensor
Optional Sensors	Fluorometer-turbidity Combo Sensor, Micro-conductivity Sensor, Additional Micro-temperature (FP07)
Uprising Profiling Kit	Flotation and weight release hardware for uprising measurements (included).

GENERAL SPECIFICATIONS

Model	MicroCTD (Internal Data Recording)
Depth Range	0 - 100 m
Weight in Air/Water	8 kg / 3 kg (other weights available)
Length Housing/Overall	0.78 m / 1 m
Sampling Rate	512 Hz / 64 Hz fast channel / slow channels (up to 2048 Hz available)
Data Acquisition	Internal recording

SENSOR SPECIFICATIONS

	Range	Accuracy	Resolution	Bandwidth*
Velocity Shear Probe	0 - 10 s ⁻¹	5%	10 ⁻³ s ⁻¹	0.1 - 100 Hz
Micro-Temperature FP07	-5 - 35 °C	0.005 °C	10 ⁻⁵ °C	0 - 25 Hz
Pressure	50 / 100 bar	0.1% FS	5 × 10 ⁻⁴ bar	0 - 5 Hz
Vibration Sensor	±1g	2%	3 × 10 ⁻⁵ g	0.1 - 100 Hz
Micro-Conductivity SBE7	0 - 70 mS/cm	0.005 mS/cm	0.001 mS/cm	0 - 100 Hz
CT sensor	Conductivity	2 - 65 mS/cm	0.001 mS/cm	0 - 16 Hz
	Temperature	-3 - 45 °C	0.001 °C	
FT sensor	Fluorescence	0 - 400 ppb	0.01 ppb	0 - 100 Hz
	Turbidity	0 - 1000 FTU	0.03 FTU	

All specifications subject to change without notice.

* other bandwidths available upon request
* higher-accuracy calibrations available upon request

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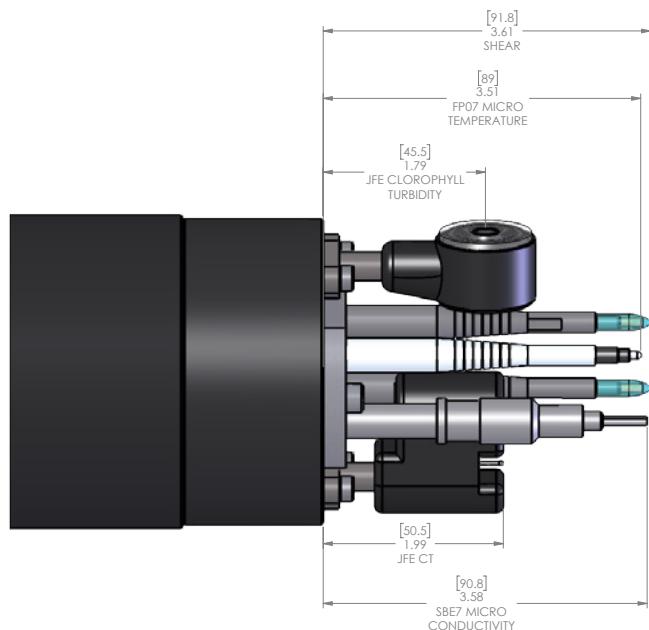


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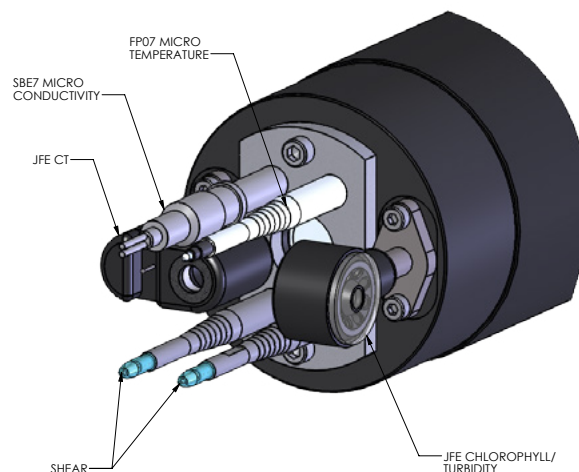
Estuarine Turbulence Profiler



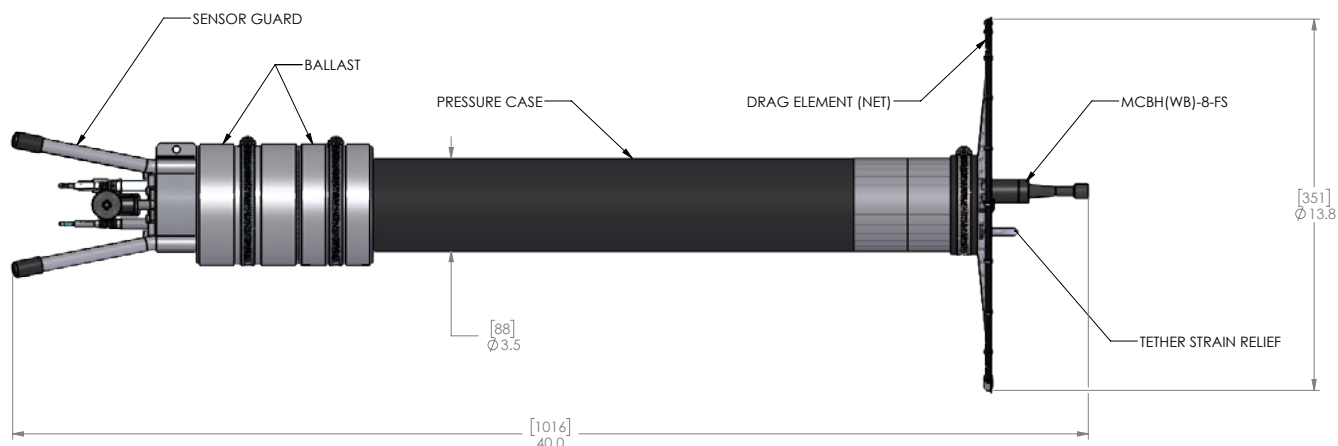
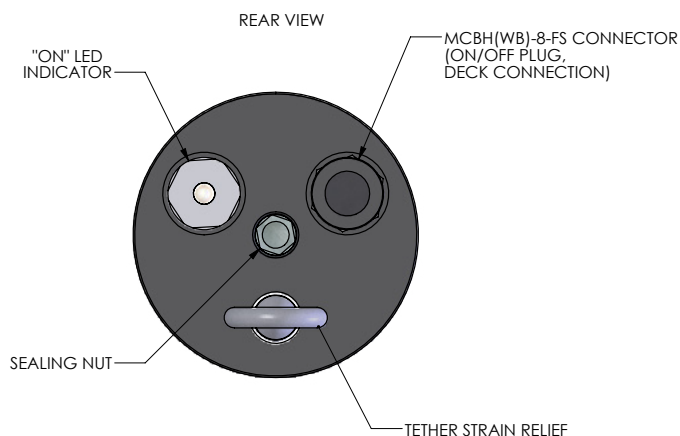
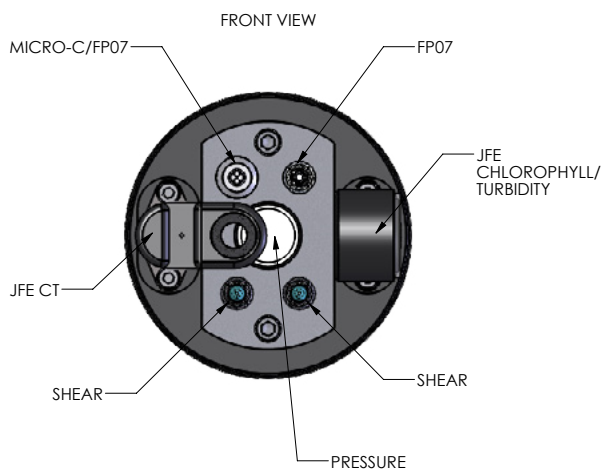
HEIGHT OF SENSORS



SENSOR ARRANGEMENT



FRONT AND REAR BULKHEAD



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