

OceanLine™ CTD/XS

Multisensor Probe adapted for ROV systems

The **CTD/XS** is a light-weight, high quality, high accuracy 4 channel probe for oceanographic, limnologic and industrial / off-shore measurement of conductivity, depth and temperature up to 2000 m (6000m on request). This version is fully integrated into the SubCtech Data Management system including data interface, power supply, and mechanical support.

The **CTD/XS** runs via a cable or from an internal battery and (as Version –M) records data at programmable time intervals or pressure stamps in a non volatile FLASH memory. A standard RS-232 interface is used for programming and data extraction. The supplied Standard Data Acquisition Software package "**SST MSDA**" for Windows® includes the handling of the logging process and the display of online or recorded data with a shared graphic user interface.

With the SubCtech **SmartDI**® Datalogger the **CTD/XS** can be included in a complete measuring network for monitoring and controlling. Special adapted for ROV / AUV inspection sensor packs.



Specification	Type	Range	Accuracy	Resolution
Conductivity	7-pole cell	0...70 mS/cm	± 0,01 mS/cm	0,001 mS/cm
Temperature	PT-100	-2...+36 °C	± 0,005 °C	0,0006 °C
Pressure	Piezo	0...10 / ... / 200 Bar	± 0,1 % FS	0,002 % FS
Salinity	Calculated	UNESCO formulas for seawater, ITS-68 or ITS-90 scale		
Sound velocity	Calculated			
Time constant	150 ms			
Fourth sensor	Fast Oxygen; H ₂ S Sensor (max. 100m), pH, Redox; Turbidity; other on request			
Controller	µController with 16 Bit data acquisition system; Option –M with 8MB Flash memory			
Memory Version	100 casts / 400.000 CTD datasets depends on programmed options			
	Continuous mode, Time mode, Pressure mode			
Measuring start	Autonomous, Magnetic switch, PC controlled			
Interface	RS-232 (RS-485; Long-Range-Modem ~20km; FSK on request), binary format			
Power	Alkaline C-cell for 150 hours continuous operating / via cable 10..30V 15mA			
Connector	SubConn			
Housing	Titanium: L 210 mm, Ø 48 mm, L overall 420 mm, Weight 1.0 kg in air Version –M: L 250 mm, Ø 48 mm, L overall 430 mm, Weight 1.2 kg in air			
Operating depth	2000 m (4000m, 6000 m on request)			
Accessories	Cables, Winches, Battery packs, External sensor, mooring frame, etc. available			

Note: other probes with more parameter such as pH, Turbidity, dissolved Oxygen, Redox etc. are available.

In cooperation with  **Sea & Sun
Marine Tech**

