



OceanLine CTD-XL Multisensor Probe



The **CTD-XL** is a high quality, high accuracy 16 channel probe for oceanographic, limnologic and industrial / off-shore measurement of physical, chemical and optical parameters up to 2000 m (others on request).

CONTROS **CTD-XL** 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 "**OceanLine-Soft**" 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 CONTROS **SmartDI** datalogger or SubSea **UW-SmartDI** Logger the **CTD-XS** can be included in a complete measuring network for monitoring and controlling. The system is able to control and operate motor driven sampler rosettes (Hydro-Bios).

OceanLine / CTD-XL – Multisensor Probe

Sensors	Type	Range	Accuracy	Resolution	Time const.
Conductivity	7-pole cell	0...6 mS/cm	± 0,005	0,0001	100 ms
		0...60 mS/cm	mS/cm	mS/cm	100 ms
		mS/cm	± 0,01 mS/cm	0,001 mS/cm	
Temperature	PT-100	-2...+36 °C	± 0,005 °C	0,0006 °C	100 ms
Pressure	Piezo	0...200 Bar	± 0,1 % FS	0,002 % FS	20 ms
Fast-Oxygen	Clarc cell	0..150%	±2 %	±0.1 %	10 s (63%)
		0..20 mg/l			
pH	Electrode	4...10 pH	±0.1 pH	±0.002 pH	1 s
Salinity / Sound	Calculated	UNESCO formulas for seawater, ITS-68 or ITS-90			
Options:	Up to 8 bottom mount sensors; up to 4 external sensors; e.g. H ₂ S Sensor (max. 100m), pH, Redox; Turbidity; Water-Current, UW-LiCor 193, other on request				
Controller	Controller with 20 Bit data acquisition system; Option -M with 64MB Flash memory				
Memory Version	100 casts / 2.500.000 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 100 hours continuous operating / via cable 10..30V ~150mA				
Connector	SubConn				
Housing	Titanium: L 350 mm, Ø 90 mm, L overall 600 mm, Weight 4.0 kg in air				
Operating depth	500 m (2000, 4000, 6000 m on request – depending on sensors)				
Accessories	Cables, Winches, Battery packs, External sensor, mooring frame, etc. available				



Symphotic TII Corporation
880 Calle Plano, Unit K
Camarillo, CA 93012 Tel: 805-484-6639
www.symphotic.com

Roper Resources Ltd.
984 St. Patrick Street
Victoria, BC V8S 4X5 Tel: 805-798-0277
www.roperrresources.com