

CTD 48 Multi Parameter Probe



Pressure
Temperature

Conductivity
Sound velocity

Highly accurate system for
oceanographic and limnological applications

- ▶ titanium housing \varnothing 48 mm
- ▶ up to 4 sensors
- ▶ depth range up to 6000 m
- ▶ internal memory and/or
FSK mode RS 232/485
- ▶ easy handling
- ▶ low weight



CTD48 Multi Parameter Probe

The CTD48 is a small and handy micro processor controlled multiparameter probe for accurate measurements of pressure, temperature and conductivity.

The probe is especially designed for limnological measurements on lakes, rivers and estuaries, but can also be used in ocean waters of up to 6000 m depth.

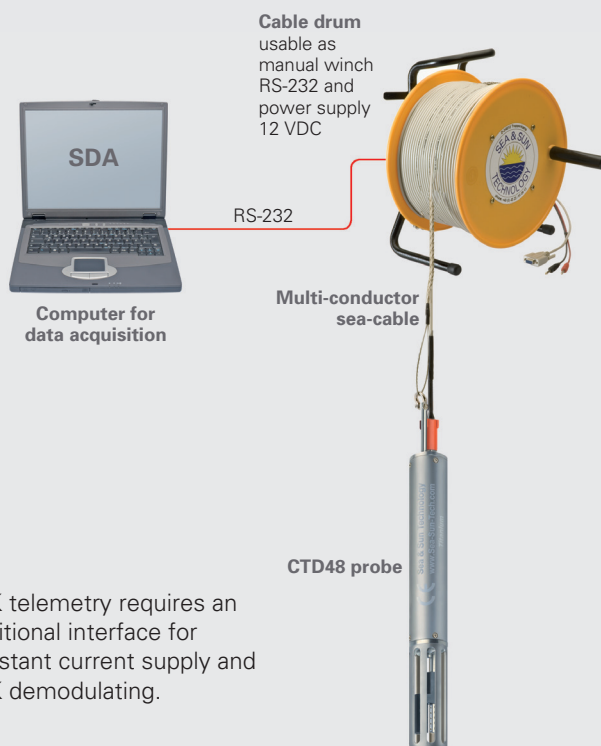
It is equipped with a 4 channel 16 (20) bit data acquisition system of high long-term stability which meets the high precision requirements necessary for oceanographic measurements.

The CTD48 is well-suited for borehole applications. The small diameter allows measurements in boreholes from 48 mm (2") size. The probe can be powered by battery or DC-power supply (9 to 36 Volt) when using RS-232 (RS-485) output or optional by constant current with FSK telemetry output (coaxial connection) for longer distances.

Standard models are:

1. CTD
2. CTD + fast oxygen sensor
3. H₂S-probe with P, T, pH, H₂S

System configuration: FSK telemetry



FSK telemetry requires an additional interface for constant current supply and FSK demodulating.

Standard Sensor Equipment/Dimensions

Sensors	Principle	Range	Accuracy	Resolution	Response time
Pressure temperature compensated material: Hastelloy	piezo-resistive	0 - 2.5, 10, 20, 50,	0.1 % full scale	0.002 % full scale	150 ms
	full bridge	100, 200, 400, 600 bar			
Temperature	Pt 100 4 pol	- 2 - + 36 °C	± 0.005 °C	0.001 °C	150 ms
Conductivity	7-pole platinum cell	0 - 70 mS/cm	± 0.01 mS/cm	0.001 mS/cm	150 ms
Conductivity	7-pole platinum cell	0 - 7 mS/cm	± 0.005 mS/cm	0.001 mS/cm	150 ms
Sound velocity	calculated	1400 - 1600 m/s		0.01m/s	

Dimensions

Ø (housing) 48 mm
 Length (housing) appr. 210 mm
 Length (overall) appr. 430 mm
 Material (housing) titanium
 Material (connector) .. titanium, neoprene

Weight (in air) appr. 1.5 kg

Electrical specifications

Power 9 - 30 VDC
 Current consumption . 30 mA
 Serial port RS 232
 Port specifications ... 1200,0,8,1
 Data transmission 5 CTD sets/s
 Option FSK telemetry
 Connector MCBH4M Ti



The CTD48 is delivered in a compact, robust and water resistant plastic case including cables, connection plugs, an instruction manual and a software CD.

Distributor