VALEPORT CTD600
DIRECT READING

GENERAL DESCRIPTION

The Series 600 C/T/D/S meter is designed for Continental Shelf operation and permits the accurate measurement of seawater Conductivity and Temperature against a Depth profile. The results obtained are applicable to many fields of scientific research. The meter is particularly suited to the obtaining of Temperature and Salinity profiles for the computation of the Speed of Sound through water, as required for the calibration of survey echo sounders and acoustic navigation systems.

The Basic System comprises:

- an underwater probe, linked via a suspension/signal cable to,
- a surface readout unit displaying C/T/D/S on two liquid crystal displays and providing an analogue output of all parameters.

FEATURES

- Direct reading
- Linearised thermistor temperature sensor
- Calibrated to international standards
- Battery powered by standard dry cells
- Salinity derived over a wide range of C & T
- Dual inductive coil conductivity sensor
- Produces data base for velocity of sound calculation

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TECHNICAL SPECIFICATIONS

1. PROBE

Probe

Manufactured from black, shock resistant, Delrin (acetal) and supplied complete with a stainless steel suspension assembly. A Valeport Hanger Bar and Columbus Sinker Weight may be hung below the probe when used in high current conditions to prevent excessive streaming of the unit behind the vessel.

Size:	380 x 72 dia. mm
Weight:	3 kg in air, 0.5 kg in water

Sensors

Sensors are internally mounted to prevent accidental damage. A 'T' hole permits water flow past the sensors.

Conductivity

Sensor Type:	Dual inductive coils
Operating Range:	0 to 60 mmho/cm
Accuracy:	Better than 0.2mmho/cm
Display Resolution:	0.01 mmho/cm

Temperature

Sensor Type:	Linearised thermistor
Operating Range:	-5 to +40 deg C
Accuracy:	Better than 0.2deg C
Response Time:	Less than 3 secs to 98% point
Display Resolution:	0.01 deg C

Pressure (Depth)

Sensor Type:	Strain gauge pressure transducer
Operating Range:	0 to 10, or 0 to 20 bar standard, (100 or 200 metres)
	Optional, 0 to 50 bar (500 metres)
transducer	Note, 10 bar fitted in units with 50 metre cables
Accuracy:	+/-0.3 per cent of full scale
Display Resolution:	0.1 metres

Salinity

Derived from measurements of Temperature and Conductivity

Range:	0 to 40 parts per thousand
Accuracy:	+/-0.4 ppt for salinity between 0 and 30 ppt and temperature 0 to +30 deg C
Display Resolution:	0.01 deg C

2. CABLE

Polyurethane sheathed oceanographic cable with integral Kevlar strain member supplied on a hand reel. Supplied in standard 50,100 or 200 metre lengths (other lengths to special order)

Size:	(200 m) 380 dia x 210mm
Weight:	17 kg

3. SURFACE READOUT UNIT

Splash-proof field portable unit, with twin 4 digit liquid crystal displays, control switches for on/off and parameter display selection (Conductivity/Salinity and Temperature/ Depth).

Analogue output:	0 to 4 Volts full scale, each channel
Power Supply:	Internal "C" size dry cells, 4 off
Low Battery Indicator:	Additional decimal point shown
Size:	160 x 110 x 185 mm
Weight:	2.5 kg

4. TRANSIT CASE

All items supplied packed in a transit and storage case.

Size:	730 x 510 x 300 mm
Weight:	12 kg

Total Weight, packed for shipment 38 kg

CALIBRATION

The Series 600 instruments are calibrated using a Guideline Model 8400 Salinometer against a reference of Institute of Oceanographic Sciences, UK standard seawater using the UNESCO equations for the derivation of salinity.

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