

VALEPORT CTD 600

MKIII SELF RECORDING



GENERAL DESCRIPTION

Features

- Self Recording and/or Direct Reading
- Time and down/up depth triggering
- Programmable sampling regime
- Direct computation of Salinity, Density and Speed of Sound
- Data direct to PC
- Large Memory
- Long cable lengths

Applications

- Oceanographic studies
- Hydrographic surveys
- Seismic Operations
- Coastal and Estuary surveys
- Education
- Marine research

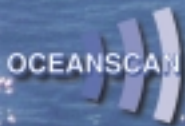
The Model 600 MKIII is the third generation of the successful Valeport 600 series CTDs using proven, industry standard sensors, and has been developed to meet the needs of oceanographers, hydrographers and surveyors who require an accurate CTD with flexibility of configuration and large memory capacity, which can output directly to a PC and can be used in both direct reading and self recording modes.

The Model 600 MKIII measures Conductivity, Temperature and Pressure parameters and has both time and depth increment based sampling. From these measurements Salinity, Density and Speed of Sound are calculated and displayed or recorded. The system is modular and instruments can be upgraded if desired, and external instruments or parameters such as turbidity or fluorescence can be interfaced and logged or monitored in real time.

The Model 600 MKIII is available in two versions: the 600SR is both self recording and direct reading and the 600DR is direct reading only. Both units can be used directly with a PC or with the optional Model 8008 Control Display Unit. The instrument has 3 data communication methods built in which offer great flexibility for configuration and use with a wide number of cable types and lengths.

Sampling mode, rate and averaging periods are set up using customers PC or 8008 Control Display Unit, and the set up is retained until overwritten. Calibration for all sensors is held within the instrument and data is provided in engineering units.

Power may be taken from its internal batteries (600SR only), or from a surface battery or the surface unit if connected. The unit has 128 kbyte memory as standard and this can be increased to 1Mbyte. As an example, in self recording mode, the 128 kbyte memory can store 20,000 records.



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Technical Specifications:

Temperature	PRT	-5 to 35 deg C	+/- 0.02 deg C	0.002 deg C
	Thermistor	-5 to 35 deg C	+/- 0.1 deg C	0.002 deg C
Conductivity	Inductive coils	0.1 to 60 mS/cm	+/- 0.05 mS/cm	0.003 mS/cm
Pressure	Strain gauge	50,100, 500,1000 or 2000 dBar	+/-0.5% FS	0.005% FS
	Strain gauge	50,100, 500,1000 or 2000 dBar	+/-0.1% FS	0.005% FS
Salinity	Derived (SAL78)		+/-0.07 PSU for PRT	0.003 PSU
			+/-0.15 PSU for Thermistor	
Speed of Sound	Derived (Chen & Millero, 1977)		+/-0.25 m/sec for PRT	0.02 m/sec
			+/-0.75 m/sec for Thermistor	
Density Anomaly Gamma	Derived (EOS-80)		+/-0.06 kg/m ³ for PRT	0.01 kg/m ³
			+/-0.12 kg/m ³ for Thermistor	

Physical Specifications

Depth Rating:	1500 metres
Body diameter:	76mm
Overall length:	1050mm SR Version 860mm DR version
Weight in air:	SR 10kg, DR 6kg
Weight in water:	SR 8kg, DR 4kg
Packing case size:	SR 1150mm x 220mm x 390mm
	DR 950mm x 500mm x 600mm
Shipping Weight:	SR Meter 24kg
	DR Meter, 8008, 50m cable 41kg
	DR Meter, 8008, 100m cable 44kg
	DR Meter, 8008, 200m cable 53kg