STD/CTD - model SD204

with multi-parameter & auto range facilities

• Salinity

SD204

- Temperature
- Sound velocity
- Turbidity (auto range)

- Conductivity
- Depth
- Oxygen
- Fluorescence (auto range)

SD204 with optional

sensors

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NAME OF

SD204 in transport/storage case

Features:

- Compact & robust design
- Long term stability sensors
- High memory capacity
- Sonar equipment compatibility
- Year-long battery capacity
- Depth to: 6000 meters
- Windows based software
- Output in physical units
- On-line plotting
- Auto range for turbidity & fluorescence

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STD/CTD - model SD 204

The SD204 measures, calculates and records sea water conductivity, salinity, temperature, depth (pressure), sound velocity and water density. Three optional sensors can be added, f. example: dissolved oxygen, fluorescence and turbidity. For optional sensors with several sensitivity ranges, the SD204 has auto range capability. Data are recorded in physical units. The accompanying software, SD200W, contains versatile functions for programming, post- and online data processing and presentations: - multigraph, online plotting, density and depth calculations (weighed profile). The program is continuously extended according to customer's requests. The programmed settings and calibration coefficients are maintained in nonvolatile eeprom, and will not be changed/lost if power is disconnected. Robustness and complete protection from leakage is obtained by vacuum molding the electronic and all other components in solid polyurethane. On/Off-switching is by a magnetic key or from keyboard. A sealed battery compartment contains two replaceable C-cells. In practical operation the

battery capacity is sufficient for continuous year-around operation with good margin. The instrument is equipped with a mooring bar with a shackle at each end. Data are recorded in physical units and simultaneously transmitted via an RS232 I/O watertight connector for on-line use.

For remote readout and monitoring, the manufacturer offers several options: Communication Unit CU901, for two-way communication via Iridium satellite, GPRS with embedded web server, GSM and UHF/VHF,



Specifications:

		m 1.11.	
Conductivity:	Inductive cell	Turbidity:	(optional)
Range:	0 to 70 mS/cm	Sensor type:	Backscatter
Resolution:	0.01 mS/cm	Ranges:	12.5, 62.5, 250, 750 FTU
Accuracy:	+/- 0.02 mS/cm	Linearity:	selectable/auto range < 2%
		Linearity:	~ 2 /0
Salinity:	Calculated from C,T & D	Real time clock:	+/- 2 sec/day
Range:	0 to 40 ppt	Real line clock.	17 2 sectuary
Resolution:	0.01 ppt	Modes:	STD/CTD with/without sound
Accuracy:	+/- 0.02 ppt	110005	velocity, oxygen and optional sensor
Temperature:		Intervals:	1 sec to 180 min.
Range:	-2 to +40'C		
Resolution:	0.001'C	Memory:	CMOS SRAM
Accuracy:	+/- 0.01'C	Capacity:	56000 data sets of STD/CTD
Response time :	0.2 sec	1 5	J
		Data output:	RS232 ASCII code.1200-9600 baud
Pressure:	Specify desired depth range with order		1 start, 7 data, 1 stop, even parity o
Ranges:	500, 1000, 2000, 6000 m)		1 start, 8 data, 1 stop, no parity
Resolution:	0.01 dbar (m)		selectable via menu
Accuracy:	+/-0.01% FS (-2 to +40'C)		
Response time:	0.1 sec	Power:	2 ea. 3.6V lithium C-cells.
			Recommended type: SAFT LSH14
Sound velocity:	Calculated from S,T &D		(Sufficient for 1.500.000 data sets)
Range:	1300 to 1700 m/s	External:	10 – 30VDC
Resolution:	1 cm/s		
Accuracy:	+/- 5 cm/s	Material:	Vacuum molded polyurethane and titanium
Dissolved oxygen: (optional)		Dimensions:	Length 400 mm. Diameter 60 mm
Sensor type:	SAIV205	Weight:	In air: 2 kg. In water: 0,8 kg.
Range:	0 to 20 mg/l	Packing:	Suitcase (534x427x157 mm)
Resolution:	0.01 mg/l		Grossweight 5,5 kg
	+/- 0.2 mg/l		
Accuracy:	+/- 0.2 mg/l	Accessories:	On/Off magnetic key,
Fluorescence:	(optional)	(included)	PC communication cable 2,5m,
	(optional) Eluorescein/ Chlorophyll/Phodemine/CDOM		MINISOFT SD200W program
Sensor type:	Fluorescein/ Chlorophyll/Rhodamine/CDOM 2.5, 7.5, 25, 75 ug/l		Operating Manual
Ranges:	ů l		
D 14' -	selectable/auto range	Warranty:	Two years against faulty materials
Resolution:	$0.03 \ ug/l$		and workmanship

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