

MantaTM 2

Water Quality Multiprobe Manual

Release date 16 Dec 08



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H3 Performance Specifications

Parameter	Range	Accuracy	Resolution
Temperature	-5°C - 50°C	± 0.1°C	0.01°C
Polarographic (Clark) DO			
Dissolved Oxygen (mg/L)	0 - 50 mg/L	± 0.2 mg/L ≤ 20 mg/L ± 0.6 mg/L > 20 mg/L	0.01 mg/L
Dissolved Oxygen (% Sat)	0 - 200% 200 - 500%	± 2.4% ± 7.2%	0.1
Optical DO			
Dissolved Oxygen (mg/L)	0 - 25 mg/L	1% of reading or 0.02 mg/L, whichever is greater	0.01 mg/L
Dissolved Oxygen (% Sat)	0 - 200%		0.1
Conductivity (SC)	0 - 100 mS/cm	1% reading ± 1 count	
Salinity	0 - 70 PSU (PPT)	± 1% of reading or 0.1 PSU, whichever is greater	4 digits
TDS	0 - 65 g/L	Calculated from Conductivity	
Turbidity		0-100 < 1% of reading	0.1
Optical 90° Nephelometric	0 - 3000 NTU	100-400 < 3% of reading	
Mechanical Wiper		over 400 < 5% of reading	
pH	0 - 14 units	± 0.2 units	0.01 units
ORP	-999 - 999 mV	± 20 mV	1 mV
Depth	Varies	± 0.1% Full Scale	0.01 m
Level	0 - 10 meter	0.003 meters	0.001
Ammonium	0 - 100 mg/L Nitrogen	± 10% of reading or 2 mg/L whichever is greater	0.1 mg/L - N
Nitrate	0 - 100 mg/L Nitrogen	± 10% of reading or 2 mg/L whichever is greater	4 digits
Chloride	0.5 - 18,000 mg/L	± 10% of reading or 2 mg/L whichever is greater	4 digits
TDG	400 - 1400 mm/Hg	± 0.5 mm/Hg	0.1 mm/Hg
Chlorophyll a	0.03 - 50 µg/L	± 3%	0.01 µg/L
Rhodamine	0.04 to 1000 ppb	± 3%	0.01 ppb
Blue Green Algae	100 - 200,000 cells/mL	± 3%	20 cells/mL

Performance specifications are affected by calibration and maintenance. For best results, clean and calibrate your instrument on a periodic basis.

Calibrate near sample conditions for best results.

See the sections in this quick start guide on calibration and maintenance for more information.