

Multiprobes built for the field technician™





Eureka's Hallmark Features

Reliable data is Eureka's Top Priority. We start with the best sensors on the market and finish with our famously simple user-interface.

Using the Manta is really, really easy. Plug the Manta into a USB port and see live water quality data a few seconds later. Most users teach themselves the Manta operating software in about 15 minutes.

Why pay more to maintain your water quality monitoring equipment? The Manta's hardware design saves in ongoing maintenance costs. Its optical DO replacement cap has a 3 year life, and its rebuildable (refillable) pH reference electrode eliminates the need to replace the pH sensor every 6 months to a year.

The Manta's LED diagnostic tool tells you when the sonde is set to log, if the Manta is getting ample voltage from line power, battery voltage remaining for models equipped with battery packs, communicating RS-232, and more!

The Manta is the only multiprobe in the industry that can support and record simultaneously, the values from up to 12 sensors. The Manta gives the end user flexibility in configuring a multiprobe for specific applications.

Excellent Customer Service is standard equipment. A human is always available to answer your call or email.

New Features in the Manta+

Three-Year Warranty includes all parts of the Manta and installed sensors, except ISE replacement tips and turbidity wiper (2 years) – even the pH sensor, pH reference electrode and replaceable optical DO cap.

Event Triggering increases the frequency of data logging when a user-selected parameter changes by a given amount over a specified period.

Digital Turbidity Sensor has built-in autoranging for excellent performance in near-zero FNU waters, with an upper range to 5000 FNU.

Calibration Stability Indicator tells you when your sensor is stable enough for calibration.

Robust wet-mateable marine connectors insure against water intrusion and connectivity issues due to corrosion.

New Sensors include tryptophan/BOD, optical brighteners, bromide, calcium, and sodium ions, fDOM II, chlorophyll red, and transmissivity.

Other new features include: Custom Parameter Option, Copper Gauze Antifouling Kit, Expanded Calibration Log, Optional Display of Raw Value Readings, and Aquarius™ Software Compatibility.





temperature depth + any other single parameter including flourometers



Temp pH conductivity DO (optical) Depth (optional) ORP (optional)



Temp
pH
conductivity
Turbidity (or any medium sensor)
Depth (optional)
ORP (optional)



Temp
pH
conductivity
DO (optical)
Turbidity (or any medium sensor)
Depth (optional)
ORP (optional)





PAR
chlorophyll
blue-green algae
rhodamine
crude oil
refined oil
CDOM/FDOM
fluorescein dye
optical brighteners
tryptophan



temp pH conductivity optical DO universal wiper turbidity

standard on 35/40

Products

Trimeter - Three Parameters at the Lowest Possible Cost

Get all the features of a Manta, including top-grade sensors and simple software, in an instrument designed for economy. Each Trimeter employs one of any sensor that Eureka offers, plus optional temperature and depth sensors.



A Data Display for Every Application and Budget

The Amphibian2 is a waterproof, full-function Windows Mobile PDA incorporating the Manta Manager user-interface, with GPS, camera and cell phone options. It is also easy to read in bright sunlight and super rugged!

Use your own smart phone or other display! The Leapfrog Bluetooth provides power to the Manta, and wireless communication to any Bluetooth-enabled display running the Manta Manager application - Windows Mobile, Windows for PC, or Android.



One Job - One Instrument

The Manta family offers up to 12 sensors in one, integrated package. Each Manta comes standard with a weighted sensor guard, storage and calibration cups, temperature sensor, embedded memory for internal logging, marine connector, electronic manual, MantaManager software and standard three year warranty.

Available sensors include temperature, optical DO, pH, ORP, conductivity, depth, level, turbidity, fluorometers including chlorophyll a, chlorophyll red, phycocyanin, phycoerythrin, fDOM, fDOM II, rhodamine, fluorescein, crude oil, refined fuels, optical brighteners, and tryptophan/BOD, CO2, ammonium, nitrate, sodium, calcium, bromide, chloride, TDG, PAR, dual PAR, and transmissivity.



Field-Proven Methods to Minimize Fouling

The Extended Turbidity Brush cleans turbidity and other sensors, such as DO, chlorophyll, and BG algae.

The MiniCleaner is a stand-alone wiper system used when you don't have an Extended Turbidity Brush.

The Copper-Gauze Kit wraps the sensors in copper gauze that slowly dissolves, bathing the sensors with the copper ions that discourage biofouling. Copper gauze is superior to solid copper, which becomes ineffective once oxidized.





Mobile Version

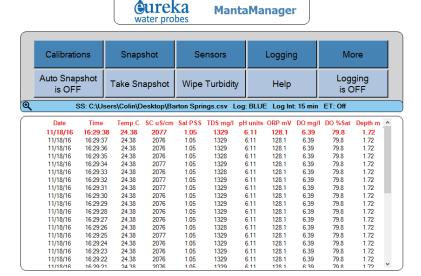




The new Manta Manager also offers a tablet and smartphone version with new "small screen" features like "swipeable" pages and large, high-contrast numbers for easier visibility in sunlight.

The New Manta Manager

The new Manta Manager retains its predecessors' ease of use and adds new features like event triggering, calibration stability indicator, more QC information options in the permanent calibration log, single-point calibrations, visibility of "raw" sensor values, cut-and-paste of rolling data to MS Office documents, more help screens, a more powerful user-defined-parameter creator, and built-in instruction manual.





Accessories for Every Application

Standard accessories include flow cells, copper-gauze anti-fouling kits, cable reels, SDI-12 converters, hard-sided cases, soft padded backpacks, pipe kits to protect logging units in the field, weather stations, Leapfrog Bluetooth, and a full line of calibration standards including secondary calibration standards for fluorometers.



Applications

lakes, rivers, ground water, storm water, estuaries, streams, ponds, near-shore oceanographic, process waters, waste waters, laboratory research

Site to Site Profiling





Process Monitoring



Unattended Logging



Ground Water







Buoy Deployments

Manta+™ Multiprobe Specifications										
		Trimeter	Maı	nta+20	Manta+25	Ma	nta+30	Manta+35	Manta+40	
Diameter		1.85"		.95"	2.45"		2.95"	3.5"	4.00"	
Length - w/o Battery Pack		13.5" 22"	_	19" 27"	19" 27"		19" 27"	19"	19"	
- Add Internal Battery Pack Weight - with IBP		2.8 lbs		4 lbs	2.5 lbs		.0 lbs	9.0 lbs	10.0 lbs	
- without battery		2.2 lbs		#\$%&'	("(\$%&'		*\$%&'	+\$%&'	*"(\$%&'	
Number of concess		Any single sensor plus						·	•	
Number of sensors		depth and temp option	U	o to 6	Up to 6	U	p to 7	Up to 11	Up to 13	
Battery Pack		3 "D"	3	"D"	3 "D"		3 "C"	6 "C"	6 "C"	
	g Temperature	-5 to 50 C 200 m, Max depth for ISE and TDG sensors is 15 meters								
Depth Rating Communications		RS-232, SDI-12, USB or Bluetooth								
	nple Rate	1 Hz								
Data Memory >1,000,000 logged readings										
Amphibian 2 Handheld Display										
	Size	3.6" W x 7.25" L x 1.5" D								
Weight		1.3 lbs								
	ting System	Microsoft® Windows Embedded Handheld 6.5.3								
	Rating		IP68							
Memory and Data Storage 512MB RAM; 8 GB - > 8,000,000 logged readings Sensor Specifications										
	u			resolution						
temperature	parameter temperature		range -5 to 50 C		accuracy 0.1		never needs cali	comments		
pH/ORP				0.01	0.1 within 10 C of calibr	ration 0.2			mnerature: typical sensor	
	рН	0 to 14	units	0.01	otherwise		refillable reference electrode; corrected for temperature; typical sensor life > 4 years			
	ORP	-999 to	999 mV	1	20 mV		olatinum ORP sensor is combined with pH sensor			
turbidity		0 to 40		4 digits with	2% of reading or		compensated for temperature; filtered for non-turbidity spikes; include		n-turbidity spikes: includes	
	turbidity	40-400		maximum of two decimals	2% of reading or 2% of range		wiper to clean the optics			
	transmissivity	0 to 100% t		4 digits	linearity of 0.99		WETLabs SeaStar; mounts alongside the Manta			
dissolved oxygen (optical sensor)	,	0 to 20		0.01	0.1		compensated for temperature and salinity; EPA approved "lifetime"			
	concentration	20 to 3) mg/l	0.01	0.15					
		30 to 5) mg/l	0.1	5%			nethod; typical sensor cap life > 4 years		
	% saturation	0 to 500%	saturation	0.1%	corresponds with the ac the concentration r					
conductivity	specific conductance, µ	uS/cm 0 to 500) uS/cm		±0.5% of reading ±		corrected for temperature; four easy-to-clean graphite electrodes;			
	specific corrudation (c)	0 to 10	<u> </u>	4 digits with	±1% of reading ±					
	specific conductance, n	nS/cm 10 to 100	mS/cm	maximum of one decimal	1% of reading	9	optional sensor provides ±0.5% of reading accuracy to 100 mS/cm.		curacy to 100 mS/cm.	
		100 to 27	5 mS/cm		2% of reading)				
	salinity	0 to 7) PSS	0.01	0.2		calculated from specific conductance; PSS = Practical Salinity Scale which is roughly equivalent to ppt			
	total dissolved solids	(TDS) 0 to 6	5 a/l	0.1	5% of reading	1	calculated from specific conductance			
pressure		0 to 2			0.05	,	compensated for temperature and salinity; 0.05 m out of 25 m is 2" o		05 m out of 25 m is 2" out of	
	depth	0 to 2	00 m	0.01	0.4		100 feet; 0.4 m out of 200 m is a football length out of two football field		th out of two football fields	
	vented depth (leve			0.001	0.003m		compensated for temp, salinity, barometric pressure		ressure	
	barometric pressu			0.1	1.5		included with depth sensor		ath 15m	
	total dissolved gas (* chlorophyll a - blu			0.1	1		compensated for temperature; maximum depth 15m			
fluorometers	chlorophyll a - red		1.5				highest-quality Turner Designs fluorometric sensors; fluorometers often require non-trivial calibration; custom optics available upon request			
	rhodamine dye									
	Phycocyanin (freshwat	er BGA) 0 to 40,	000 ppb							
	Phycoerythrin (marine			6 digits with						
	CDOM/fDOM CDOM/fDOM custo	0 to 1250 or 0		maximum of two						
	optical brightener			decimals						
	tryptophan	0 to 20,0								
	fluorescein dye									
	refined oil	0 to 10								
ion-selective electrodes (ISE's)	crude oil ammonium	0 to 150	/I as nitrogen		5% or 2 mg/l		corrected for ionic strength (via conductivity readings); the accuracy specification relies on non-trivial maintenance practice and frequent			
	nitrate		/I as nitrogen /I as nitrogen							
	chloride		000 mg/l	0.1						
	sodium	0 to 20,0		0.1			calibration near	the temperature of measurer	nent; ammonium and	
	calcium	0 to 40,0					nitrate require tip replacement every 3 - 6 months			
PAR	bromide		0 to 80,000 mg/l 10,000 µmol/sm2 4 digits		5% of reading LiCor sp		LiCov en handa l	or spherical sensor		
PAK	AR photometric PAR 10,000 μmol,						LiCor spherical sensor			
Warranty										
Manta+ Multiprobe Amphibian2 Handhe	ld	3 years *			Underwater cables			3 years		
Amphibian2 Handheld 2 years Leapfrog Bluetooth 3 years (battery – 90 days)								чуэ		

Turbidity Wiper

FOR BEST ACCURACY, ALWAYS CALIBRATE NEAR THE ANTICIPATED FIELD READINGS, AND NEAR THE TEMPERATURE OF THE ANTICIPATED FIELD READINGS.
**All sensors included except ISE's (Ammonia/nitrate/chloride);
pH sensor included in 3 year warranty
Specifications indicate typical performance and are subject to change. See www.waterprobes.com for current specifications.

Optical DO Cap

3 years

2 years

About Us

Eureka was formed in 2002 by industry veterans who believed there was considerable room in the multiprobe market for improvements in technology and customer service. Eureka, an employee-owned partnership, includes the company's founder along with partners from both Europe and Asia with extensive history in the water quality industry.

Eureka Water Probes continues to provide innovative, reliable multiprobes backed by market-leading customer service. Designing and manufacturing the world's best multiprobes remains our sole focus.

Give us a call! We can make your data-collection easier, better, and more cost effective.

Worldwide Distribution



Eureka Water Probes 2113 Wells Branch Parkway Austin , TX 78728 Tel +1.512-302-4333 www.waterprobes.com

For a complete list of our international partners, please see www.waterprobes.com/contact. sales@waterprobes.com and support@waterprobes.com

