

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.

MantaManager

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			(W	ater pro	bes							
ı	Calibrations Auto Snapshot is OFF		Snapshot Take Snapshot		Sensors Wipe Turbidity			Loggin	g	More Logging is OFF		
Ī							/	Help				
Q.	S	S: C:\Us	ers\Colin\D	esktop\Ba	rton Sprii	ngs.csv L	.og: BLU	E Log Int	t: 15 min	ET: Off		
	Date	Time	Temp C	SC uS/cm	Sal PSS	TDS mg/l	pH units	ORP mV	DO mg/l	DO %Sat	Depth m	^
	11/18/16	16:29:3	B 24.38	2077	1.05	1329	6.11	128.1	6.39	79.8	1.72	
	11/18/16	16:29:37	24.38	2076	1.05	1329	6.11	128.1	6.39	79.8	1.72	
	11/18/16	16:29:36	24.38	2076	1.05	1329	6.11	128.1	6.39	79.8	1.72	
	11/18/16	16:29:35	24.38	2076	1.05	1328	6.11	128.1	6.39	79.8	1.72	
	11/18/16	16:29:34		2077	1.05	1329	6.11	128.1	6.39	79.8	1.72	
	11/18/16	16:29:33		2076	1.05	1328	6.11	128.1	6.39	79.8	1.72	
	11/18/16	16:29:32		2077	1.05	1329	6.11	128.1	6.39	79.8	1.72	
	11/18/16	16:29:31		2077	1.05	1329	6.11	128.1	6.39	79.8	1.72	
	11/18/16	16:29:30		2076	1.05	1329	6.11	128.1	6.39	79.8	1.72	
	11/18/16	16:29:29		2076	1.05	1329	6.11	128.1	6.39	79.8	1.72	
	11/18/16	16:29:28		2076	1.05	1329	6.11	128.1	6.39	79.8	1.72	
	11/18/16	16:29:27		2076	1.05	1329	6.11	128.1	6.39	79.8	1.72	
	11/18/16	16:29:26		2076	1.05	1328	6.11	128.1	6.39	79.8	1.72	
	11/18/16	16:29:25		2077	1.05	1329	6.11	128.1	6.39	79.8	1.72	
	11/18/16	16:29:24		2076	1.05	1329	6.11	128.1	6.39	79.8	1.72	
	11/18/16	16:29:23		2076	1.05	1329	6.11	128.1	6.39	79.8	1.72	
	11/18/16	16:29:22		2076	1.05	1329	6.11	128.1	6.39	79.8 79.8	1.72	







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

			Mai	nta+™ Multipr	obe Specification:	S						
		Trimeter	Man	nta+20	Manta+25 Ma		inta+30	Manta+35	Manta+40			
	Diameter		1.85" 1		2.45"			3.5"	4.00"			
	Length - w/o Battery Pack - Add Internal Battery Pack		13.5"		19" 27"		19" 27"	19"	19"			
	rnai Battery Pack	2.8 lbs		27" 4 lbs	2.5 lbs		5.0 lbs	9.0 lbs	10.0 lbs			
	out battery	2.2 lbs		#\$%&'	("(\$%&'		'*\$%&'	+\$%&'	*"(\$%&'			
	·								, .			
Numb	Number of sensors		Up	to 6			Up to 7 Up to 11 Up to 1		Up to 13			
Battery Pack		3 "D"	3	"D"			8 "C" 6 "C" 6 "C		6 "C"			
Operating Temperature			200		50 C							
Depth Rating Communications		200 m, Max depth for ISE and TDG sensors is 15 meters RS-232, SDI-12, USB or Bluetooth										
	nple Rate	1 Hz										
Data	a Memory	>1,000,000 logged readings										
Amphibian2 Handheld Display												
Size 3.6" W x 7.25" L x 1.5" D												
V	Veight	1.3 lbs										
	ting System	Microsoft® Windows Embedded Handheld 6.5.3										
	Rating		F1		968 8,000,000 logged reading							
wemory a	nd Data Storage		31			J-2						
	naramatar			sensor sp	ecifications							
temperature	parameter temperature	-5 to 50	-5 to 50 C		accuracy 0.1	•		comments never needs calibration				
perature					 	0.1 within 10 C of calibration, 0.2						
pH/ORP	рН	0 to 14 t	0 to 14 units		otherwise		life > 4 years					
	ORP		9 to 999 mV 1		20 mV		platinum ORP sensor is combined with pH sensor					
		0 to 40		4 digits with	2% of reading of		compensated for temperature; filtered for non-turbidity spi		n-turbidity spikes: includes			
turbidity	turbidity	40-400		maximum of two decimals	2% of reading or 0.2 2% of range		wiper to clean the optics					
	transmissivity	0 to 100% tra		4 digits	linearity of 0.9		WETLabs SeaStar; mounts alongside the Manta					
	,	0 to 20 r		0.01	0.1		compensated for temperature and salinity; EPA approved "lifetime					
	concentration	20 to 30	mg/l	0.01	0.15							
dissolved oxygen (optical sensor)		30 to 50	mg/l	0.1	5%			or temperature and salinity; El nethod; typical sensor cap life				
	% saturation	0 to 500% sa	aturation	0.1%	corresponds with the accuracy of the concentration reading							
	specific conductance, µ	S/cm 0 to 5000	uS/cm		±0.5% of reading							
		0 to 10 m		4 digits with	+1% of reading		corrected for temperature; four easy-to-clean graphite electrodes,					
•	specific conductance, m	nS/cm 10 to 100 i	mS/cm	maximum of one decimal	1% of readin	ng	optional sensor provides ±0.5% of reading accuracy to 100 mS/cm.					
conductivity		100 to 275	mS/cm		2% of readin	ng						
	salinity	0 to 70	PSS	0.01	0.2		calculated from specific conductance; PSS = Practical Salinity is roughly equivalent to ppt		Practical Salinity Scale which			
	total dissolved solids	(TDS) 0 to 65	0 to 65 g/l 0.1		5% of reading		calculated from specific conductance					
	ما مساما	0 to 25		0.01	0.05	<u> </u>	compensated for temperature and salinity; 0.05 r		05 m out of 25 m is 2" out of			
	depth	0 to 200) m	m			100 feet; 0.4 m out of 200 m is a football length out of two football f					
pressure	vented depth (leve		0 to 10 m		0.003m		compensated for temp, salinity, barometric pressure		ressure			
	barometric pressur total dissolved gas (1		400 to 900 mm Hg 400 to 1,400 mm Hg		1.5		included with depth sensor					
	chlorophyll a - blu		0 to 1,400 mm Hg 0.1 0 to 500μg/l		I I		compensated for temperature; maximum depth 15m					
	chlorophyll a - rec											
	rhodamine dye	0 to 1000										
	Phycocyanin (freshwate											
	Phycoerythrin (marine CDOM/fDOM		0 to 750 ppb 50 or 0 to 5000 ppb 6 digits									
fluorometers	CDOM/fDOM custo			maximum of two decimals	linearity of 0.99R ²		highest-quality Turner Designs fluorometric sensors; fluorometers often require non-trivial calibration; custom optics available upon request					
	optical brightener		15,000 ppb 20,000 ppb to 500 ppb									
	tryptophan	0 to 20,00										
	fluorescein dye											
	refined oil	0 to 10,0	_									
	crude oil ammonium	0 to 1500 0 to 100 mg/l										
	nitrate	0 to 100 mg/l										
ion-selective	chloride	0 to 18,00	_	0.1	5% or 2 mg/l		corrected for ionic strength (via conductivity readings); the accuracy specification relies on non-trivial maintenance practice and frequent calibration near the temperature of measurement; ammonium and nitrate require tip replacement every 3 - 6 months					
electrodes (ISE's)	sodium	0 to 20,00		V. I								
	calcium	0 to 40,00										
PAR	bromide photometric PAR	0 to 80,00		4 digits	5% of readin	ng.	LiCor spherical :	sensor				
Warranty Understanding 2 mark												
Manta+ Multiprobe Amphibian2 Handheld		3 years *		Underwater cables Leapfrog Bluetooth			3 years 3 years (battery – 90 days)					
Ontical DO Can		2,000			Tools die Misses			3 /20.3 (Butter) - 90 u	-,-,			

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



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

