

Alava Ingenieros

Multiprobes built for the field technician™







temperature depth + any other sensor

Temp pH conductivity DO (optical)

Temp
pH
conductivity
Turbidity (or any medium sensor)

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

small sensor options

sodium ammonium nitrate chloride TDG

temp pH conductivity optical DO universal wiper turbidity



standard on 35/40

Rugged • Anti-corrosive housings and sensors • Industry leading 3 year warranty Anti-fouling options Intelligent • Sensor health indicator • Automatic recording of internal calibration data • LED status indicator medium sensor options Simple PAR chlorophyll blue-green algae • One touch and automatic data capture rhodamine crude oil refined oil • Fast easy calibration CDOM/FDOM fluorescein dye Intuitive software optical brighteners tryptophan *Depth and ORP (must have pH) optional on any probe

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 and iOS.



Manta Plus

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

Snapsh	not Find	Find Another Manta	
DATE	07/14/17	7	
TIME	09:45:54		
Temp	51.23	deg/C	
pН	8.91	units	
Depth	0.00	m	
SpCond	327.5	uS/cm	
HDO	5.75	mg/l	
HDO	110.9	%Sat	
View Snap	shots	More	

Simulator 1: S	MT11160001 Q
15.20	8.83
temp C	DO %sat
5.67	438.20
pH units	SC uS/cm
8.12	28.44
turbidity FNU	depth m
0 S	

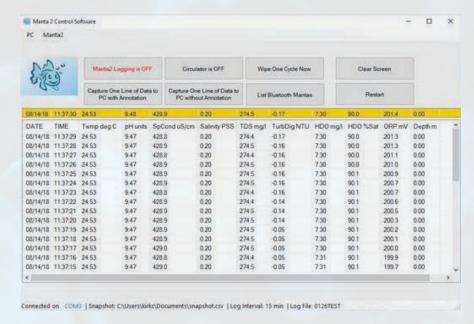
Android

iOS

MantaLink software is available for Android and iOS with small screen features like "swipeable" pages and large, high-contrast numbers for easier visibility in sunlight.

Manta Software

The Manta Software features simple to use, intuitive menus. Instructions take the user through the calibration of each sensor. Easy set-up for discrete sampling "snapshot" files or log files for internal logging, using Windows architecture. All filies are in .csv format.













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	Manta+20	Manta+25	Manta+30	Manta+35	Manta+40		
Diameter	1.85"	1.95"	2.45"	2.95"	3.5"	4.00"		
Length -w/o Battery Pack	13.5"	19"	19"	19"	19"	19"		
- Add Internal Battery Pack	22"	27"	27"	27"	19	19		
Weight - with IBP	2.8 lbs	2.4 lbs	2.5 lbs	5.0 lbs	9.0 lbs	10.0 lbs		
- without battery	2.2 lbs	1.8 lbs	2.2 lbs	3.6 lbs	5 lbs	6.2 lbs		
Number of sensors	Any single sensor plus	Up to 6	Up to 6	Up to 7	Up to 11	Up to 13		
Number of sensors	depth and temp option							
Battery Pack	3 "D"	3 "D"	3 "D"	8 "C"	6 "C"	6 "C"		
Operating Temperature	-5 to 50 C							
Depth Rating	200 m, Max depth for ISE and TDG sensors is 15 meters							
Communications	RS-232, SDI-12, USB or Bluetooth							
Sample 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							
Operating System	Microsoft® Windows Embedded Handheld 6.5.3							
IP Rating	IP68							
Memo <mark>ry and Data Storage</mark>	512MB RAM; 8 GB - > 8,000,000 logged readings							

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Sensor Specifications								
sensor	parameter	range and units	resolution	accuracy	comments			
temperature	temperature	-5 to 50 C	0.01	±0.1	calibration not required			
pH/ORP	рН	0 to 14 units	0.01	±0.1 within 10 C of calibration; 0.2 otherwise	refillable reference electrode; corrected for temperature; typical sensor life >6 years; optional ORP sensor is combined with pH sensor			
	ORP	-999 to 999 mV	0.1	±20 mV				
turbidity	turbidity	0 to 1000 FNU	0.01	±0.3 FNU or ±2% of reading w.i.g.	filtered for non-turbidity spikes; includes wiper to clean the optics;			
·	·	1000 to 4000 FNU		±4% of reading	FNU and NTU are interchangeable			
transmissivity	transmissivity	0 to 100% transmission	0.01	linearity of 0.99 R ²	transmissometer mounts externally to Manta			
		0 to 20 mg/l	0.01	±0.1				
dissolved ovvgen	concentration	20 to 30 mg/l	0.01	±0.15	sampaneeted for tampareture and calinity: EPA approved "lifetime"			
dissolved oxygen (optical sensor)		30 to 50 mg/l	0.01	±5% of reading	compensated for temperature and salinity; EPA approved "lifetime" luminescence method; typical sensor cap life > 6 years			
	% saturation	0 to 500% saturation	0.1	corresponds with the accuracy of the concentration reading				
	specific conductance, μS/cm	0 to 5000 μS/cm	0.1	±0.5% of reading or ±1 w.i.g.				
	specific conductance, mS/cm	0 to 100 mS/cm	0.001	±1% of reading ±0.001	corrected for temperature; four easy-to-clean graphite electrodes; optional sensor provides ±0.5% of reading accuracy to 100 mS/cm.			
conductivity	specific conductance, mo/em	100 to 275 mS/cm	0.001	±2% of reading				
conductivity	salinity	0 to 70 PSU	0.01	±2% of reading	calculated from conductivity and temperature, PSU is equivalent to ppt			
	total dissolved solids (TDS)	0 to 65 g/l	0.1	±5% of reading				
	donth	0 to 25 m	0.01	±0.05	compensated for temperature and salinity			
	depth	0 to 200 m	0.01	±0.4	compensated for temperature and saminty			
pressure	vented depth	0 to 10 m	0.001	±0.003	compensated for temp, salinity, barometric pressure			
	barometric pressure	400 to 900 mm Hg	0.1	±1.5	included with depth sensor			
	total dissolved gas (TDG)	400 to 1,400 mm Hg	0.1	±1	compensated for temperature; maximum depth 15m			
	chlorophyll a - blue	0 to 500 μg/l						
	chlorophyll a - red	0 to 500 μg/l						
	rhodamine dye	0 to 1000 ppb						
	Phycocyanin (freshwater BGA)	0 to 4500 ppb						
	Phycoerythrin (marine BGA)	0 to 750 ppb						
fluorometers	CDOM/FDOM	0 to 1500/3000 ppb	0.01		highest-quality fluorometric sensors; fluorometers often require			
	optical brightener	0 to 2500 ppb	0.0.		non-trivial calibration; custom optics available upon request			
	tryptophan	0 to 5000 ppb						
	fluorescein dye	0 to 500 ppb						
	PTSA	0 to 650 ppb						
	refined oil	0 to 20 ppm						
	crude oil	0 to 1500 ppb						
	ammonium	0 to 100 mg/l as nitrogen		±10% of reading or 2mg/L w.i.g.				
	nitrate	0 to 100 mg/l as nitrogen			corrected for ionic strength (via conductivity readings); the accuracy			
ion-selective	chloride	0.5 to 18,000 mg/l	0.1		specification relies on non-trivial maintenance practice and frequent			
electrodes (ISE's)	sodium	0.05 to 20,000 mg/l			calibration near the temperature of measurement; sensors require periodic tip replacement			
	calcium	0 to 40,000 mg/l			periodic tip replacement			
	bromide	0 to 80,000 mg/l						
PAR	photometric PAR	10,000 μmol/cm2	0.1	±5% of reading	LiCor spherical sensor			
CO2	carbon dioxide	0 to 2000 ppm	0.1	±3% of full scale	other ranges available			
			War	ranty				
Manta+ Multiprobe		3 years *		Underwater cables 3 years				
Amphibian2 Handheld 2 years				Leapfrog Bluetooth 3 years (battery – 90 days)				
Optical DO Cap		3 years		Turbidity Wiper 2 years				
FOR BEST ACCURACY, ALWAYS CALIBRATE NEAR THE ANTICIPATED FIELD READINGS, AND NEAR THE TEMPERATURE OF THE ANTICIPATED FIELD READINGS.								

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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 is an employee-owned partnership 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/international-distributors sales@waterprobes.com and support@waterprobes.com



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