

temperature

dissolved oxygen

conductivity

pH

turbidity

ORP

depth and level



EasyProbe™

You've never seen this performance at this price in a water-quality monitor.

- spot-checking
- remote telemetry
- water and wastewater
- education and research
- aquaculture
- unattended logging
- lakes, rivers, estuaries
- process control
- laboratory
- ground water

The EasyProbe

The EasyProbe20 includes:

a multiprobe with sensors for temperature, dissolved oxygen, conductivity, and pH/ORP in a 1.95" diameter instrument; weighted sensor guard, tool and maintenance kit, and soft carrying case.

The EasyProbe30 includes:

the same as EasyProbe20 plus a turbidity sensor in a 2.95" diameter instrument (and optional internal-logging battery pack).



Options & Accessories

Depth (level) sensors, USB adapter, 5-, 10-, 20-, 30-, 40-, and 50-m underwater cables, integrated SDI-12 and MODBUS output for connection to third-party devices, Bluetooth-equipped tablet (Apple and Android) with rugged field enclosure, flow cell, copper anti-fouling kit, pipe kit, telemetry kit, and calibration solutions.

Why choose an EasyProbe?

Reliability. Eureka multiprobes are so well suited for demanding field conditions that Eureka is the only manufacturer providing a three-year warranty that includes all sensors. Superior sensors mean you can trust your data.

Fitness for Purpose. Eureka uses the best sensors available and materials that stand up to all field conditions. Eureka multiprobe construction and operation has been tested in thousands of demanding applications over several decades.

Lifetime Cost. Not only does the EasyProbe have a highly competitive purchase price, but it also has the lowest maintenance costs in the industry.

Service After Sale. In the event that you run into a problem, Eureka Customer Support responds immediately to emails and phone calls, and does not rest until your problem is solved.

Ease of Use. EasyProbes are easy to calibrate and deploy. Our hallmark is software so simple you can walk yourself through in just a few minutes. You will not need a manual to learn the software features.

Warranty. Industry leading three year warranty.

How to Buy an EasyProbe

Contact us at sales@waterprobes.com, or 512-233-4333, or customers can order at our online store at waterprobes.com.

For international sales please see our international dealer webpage.



Connectivity is Easy

The *EasyProbe* is the multiprobe itself. It communicates via the underwater cable to the *mantaMobile*™. SD1-12 and MOD BUS are available if you wish to connect to loggers, controllers, telemetry, etc.

The *mantaMobile* is a rechargeable, high-capacity lithium battery and a Bluetooth transceiver in a waterproof (IP67) case. The *mantaMobile* communicates via Bluetooth to just about any Android or Apple display device, including tablets and phones. The *mantaMobile* will power an *EasyProbe* for eight hours or more.

mantaLink™ is the software app used to access the functions and data from your *EasyProbe*. Installing *mantaLink* on your display device (phone or tablet) takes just a few minutes; after that, connecting the *EasyProbe* to your display device takes just a few seconds. *mantaLink* features the usual functions (such as calibrations, parameter selection, Snapshot data capture, etc.), plus geofencing, automatic logging, data email, and a mercifully simple menu structure. With *mantaLink*'s black background and large, white letters, your data device is easily read in sunlight.

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EasyProbe Specifications

Multiprobe specification charts often come with footnotes stating qualifications such as “accuracy specification good at the time and temperature of calibration” or “all values within 1 standard deviation” or “SC accuracy applies only at the calibration point”. To avoid eyestrain from reading small print, the *EasyProbe* specification chart has “lab accuracy” and “field accuracy” columns. The latter gives you a more realistic idea of how your multiprobe performs, over time, under common field conditions.

EasyProbe Specifications

Parameter, Units	Range	Resolution	Lab Accuracy	Field Accuracy
temp, C	-5 to 50	0.01	0.1	0.1
pH, units	0 to 14	0.01	0.1	0.2
ORP, mV	-999 to 999	1	20	40
SC, uS/cm	0 to 200,000	four digits; maximum of one decimal	1% of rdg +/-1	1% of rdg +/-1
Value DO, % Sat	0 to 200	0.1	2	3
	200 to 500	–	4	6
Value DO, mg/l	0 to 50	0.1	corresponds with % sat	
turbidity, FNU, NTU	0 to 1,000	four digits; maximum of two decimals	0.3 or 2% of rdg	0.5 or 3% of rdg
	1,000 to 4,000		4% of rdg	5% of rdg
Value depth, m	0 to 25	0.01	0.2	0.2
BP, mbar	400 to 900	0.1	1.5	1.5
TDS, g/l	0 to 65	0.01	5% of reading	5% of reading
Sal, PSS	0 to 70	0.01	0.1	0.2

Dimensions including weighted sensor guard: EP20 - 1.95”/50 mm diameter, 18.8”/47.8 mm long, 1.8 lbs/0.82 kg; EP 30 - 2.95”/75 mm diameter, 18.8”/47.8 mm long, 3.6 lbs/1.63 kg



About Eureka

Eureka has designed and manufactured top-shelf, water-quality monitoring instruments since 2002. We were the first to offer LED operation indicators, calibration logs for QA/QC records, PDA's and cellphones for data displays, “smart” sensors, Bluetooth communication, transparent housings, USB-powered PC communication, the three-year warranty, etc.

Eureka's unique expertise is learning the customers' needs and then adapting the best available technology – especially sensors and software – to meet those needs.

Eureka multiprobes have proven themselves over two decades in every kind of application – deep or shallow; hot or cold; fresh or salt; clean or fouling; lakes, rivers, estuaries, near-shore marine, and process waters in thousands of sites around the world.

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Physical

- **Length:**
14" (without battery pack)
24" (with battery pack)
- **OD:** 1.95"
- **Weight:** 1.4 lb, 1.8 lb with optional battery pack

Connectivity Options

- Underwater cable or data cable via marine connector
- Bluetooth connectivity via mantaMobile device

Battery

- Holds three 1.5 VDC "D" size replaceable alkaline batteries
- Logging time dependent on number of sensors, logging interval and temperature

Data Memory

- 4 Mbytes for logged data, >1,000,000 readings

Accessories

- Underwater cables
3 – 200 meters
- Battery pack for self-powered logging
- mantaMobile Bluetooth
- Soft and hard carry cases
- Flow cell
- Anti-fouling sensor guard

Warranty

- 3 year limited warranty covers all components, including sensors

Trimeter™

Eureka's most compact multiprobe

The Trimeter incorporates the field-proven electronics of Eureka's premier Manta+ multiprobe, with a smaller, light-weight instrument body.

Select any one of Eureka's water quality sensors (excluding ISE's), and add temperature and/or depth (vented or non-vented) sensors. The Trimeter is an excellent choice when you need a self-powered probe for autonomous Turbidity logging. For example, choose wiped Turbidity with temperature and depth, or Turbidity and temperature sensors only.

Trimeters are also ideal for use in dye-trace studies, equipped with Rhodamine, Fluorescein, or other custom dye sensors from Eureka. Use the Trimeter with Eureka's mantaLink app for iOS or Android, or Windows for the PC.

- Choose one Eureka water quality sensor, plus add Temperature and/or Depth
- For spot checking, logging, or connection to data stations
- LED diagnostic status indicators
- Optional battery pack for long-life logging power
- Robust marine connector
- Small, rugged, light-weight design
- Compatible with all Eureka software apps, Windows, iOS and Android
- Excellent choice for autonomous Turbidity logging

Sensor Specifications

Sensor	Parameter	Range & Units	Resolution	Accuracy	Comments
temperature	temperature	-5 to 50 C	0.01	±0.1	calibration not required
pH/ORP	pH	0 to 14 units	0.01	±0.1 within 10 C of calibration; or 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	
conductivity	specific conductance, $\mu\text{S/cm}$	0 to 5000 $\mu\text{S/cm}$	0.1	±0.5% of reading or ±1 w.i.g.	corrected for temperature; four easy-to-clean graphite electrodes; optional sensor provides ±0.5% of reading accuracy to 100 mS/cm.
	specific conductance, mS/cm	0 to 100 mS/cm	0.001	±1% of reading ±0.001	
		100 to 275 mS/cm	0.001	±2% of reading	
	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	
dissolved oxygen (optical sensor)	concentration	0 to 20 mg/l	0.01	±0.1	compensated for temperature and salinity; EPA approved "lifetime" luminescence method; typical sensor cap life > 6 years
		20 to 30 mg/l	0.01	±0.15	
		30 to 50 mg/l	0.01	±5% of reading	
	% saturation	0 to 500% saturation	0.1	corresponds with the accuracy of the concentration reading	
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; FNU and NTU are interchangeable
		1000 to 4000 FNU		±4% of reading	
pressure	depth	0 to 25 m	0.01	±0.05	compensated for temperature and salinity
		0 to 200 m		±0.4	
	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
fluorometers	chlorophyll a - blue	0 to 100 $\mu\text{g/l}$	0.01	linearity of 0.99 R^2	highest-quality fluorometric sensors; fluorometers often require non-trivial calibration; custom optics available upon request
	chlorophyll a - red	0 to 500 $\mu\text{g/l}$			
	rhodamine dye	0 to 200 ppb			
	Phycocyanin (freshwater BGA)	0 to 4500 ppb			
	Phycoerythrin (marine BGA)	0 to 700 ppb			
	CDOM/FDOM	0 to 500 ppb			
	optical brightener	0 to 300 ppb			
	tryptophan	0 to 5000 ppb			
	fluorescein dye	0 to 150 ppb			
	PTSA	0 to 650 ppb			
	refined oil	0 to 20 ppm			
	crude oil	0 to 300 ppb			

For best accuracy, always calibrate near the anticipated field readings, and near the temperature of the anticipated field readings.

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Trimeter



temperature
depth
+ any other sensor

20



Temp
pH
conductivity
DO (optical)

25



Temp
pH
conductivity
Turbidity (or any medium sensor)

30



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

35



small sensor options

sodium
ammonium
nitrate
chloride
TDG



40



temp
pH
conductivity
optical DO
universal wiper
turbidity

standard on 35/40



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.

