

# Eureka Sub3 Water-Quality Multiprobe

- Highly reliable water-quality data for temperature, optical dissolved oxygen, conductivity, pH, depth or level, ORP, and turbidity
- Learn the software in 10 minutes
- Industry-best customer service
- Use in lakes, rivers, estuaries, aquifers
- Manual mode, unattended logging mode, and/or real-time telemetry mode



## DESCRIPTION & FEATURES

The Eureka Sub3 multiparameter water-quality multiprobe measures temperature, optical dissolved oxygen, conductivity, pH, depth or level, ORP, and turbidity – all in one package that delivers data in the toughest field conditions. Our multiprobes are known worldwide for ease of use, reliable data, and economical operation.

The Sub3 delivers professional-grade data in fresh or salt natural waters to 200 meters deep. It's designed for ease of use with direct USB connection to your PC, automatically loading software, operating-status LED's, and a PDA-based field data display that uses the same software as your PC. With features like a refillable reference electrode and virtually unbreakable cables, the Sub3 has the lowest lifetime cost of any multiprobe on the market.

## APPLICATIONS

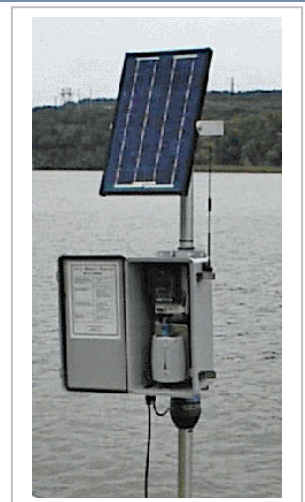
### Manual Surveying

Collect data all day at multiple sites; download it directly into MS Excel



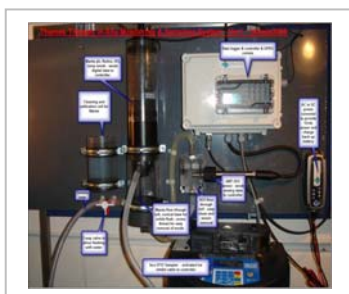
### Cell or Satellite Telemetry

Turn-key system, real-time data saves manpower costs



### Process Control

Let the Sub3 monitor multiple process parameters 24/7



### Unattended Logging

Collect data for weeks at a time to minimize manpower requirements and safety issues

# Eureka Sub3 Water-Quality Multiprobe

## SENSORS

- temperature
- optical dissolved oxygen (lifetime method)
- conductivity / salinity / TDS
- turbidity
- pH
- ORP
- depth or level / stage

## PERFORMANCE AND PHYSICAL SPECIFICATIONS

Parameter Specifications	range	resolution	accuracy	comments
temperature	-5 to 50 deg C	0.01	±0.1	never needs calibration
optical dissolved oxygen	0 to 20 mg/l	0.01	±0.2	compensated for temperature and salinity; choose from "intensity" (ODO) or "lifetime" (HDO) fluorescence methods
	20 to 50 mg/l		±10% of reading	
	0 to 200 % sat 200 to 500 % sat	0.1	±1% of reading ±0.1 % sat ±10% of reading	
specific conductance	0 to 10 mS/cm	0.001	±1% of reading ±0.001 mS/cm	corrected for temperature; four easy-to-clean graphite electrodes; optional sensor provides ±0.5% of reading accuracy
	10 to 100 mS/cm	0.01	±1% of reading	
	0 to 1000 µS/cm 1000 - 100,000 µS/cm	0.1 1	±1% of reading ±1 µS/cm ±1% of reading	
salinity	0 to 70 PSS	4 digits	±1% of reading ±0.1 PSS	
total dissolved solids (TDS)	0 to 65 g/l	4 digits	±5% of reading	
pH	0 to 14 units	0.01	±0.2	corrected for temperature
ORP	-999 to 999 mV	1	±20	refillable reference electrode
stage (vented level)	0 to 10 mS/cm	0.001	±0.003m (±0.03% of FS)	corrected for barometric pressure and salinity
depth	0 to 10 m	0.01	±0.02 (±0.2% of FS)	compensated for temperature and salinity; optional sensors provide higher accuracy
	0 to 25 m	0.01	±0.05 (±0.2% of FS)	
	0 to 50 m	0.1	±0.1 (±0.2% of FS)	
	0 to 100 m	0.1	±0.2 (±0.2% of FS)	
	0 to 200 m	0.1	±0.4 (±0.2% of FS)	
turbidity	0 to 400 NTU	4 digits	± 1% of reading ± 1 count	compensated for temperature; includes wiper to clean the optics
	400 to 3000 NTU	4 digits	± 3% of reading	

Multiprobes and External Battery Packs Dimensions	diameter, inches	length with weighted sensor guard, inches	length without weighted sensor guard, inches	weight with weighted sensor guard, pounds	weight without weighted sensor guard, pounds	weight in water with weighted sensor guard, pounds
Sub3	3.0	16	14	5	2	1
Model 30 and Sub3 External Battery Pack (3")	3.0	n/a	7	n/a	2	0.4

# Eureka Sub3 Water-Quality Multiprobe

## ACCESSORIES

- **underwater cables** – use underwater cables with your multiprobe when you are doing manual surveying or using telemetry; they are not necessary for unattended logging applications.



- **power options** – use a Y-cable when you have your own power supply (such as in telemetry systems) or use a Battery Box (rechargeable lithium-ion battery) with a data display or with cables longer than 50 meters; the Battery Box also comes with a Bluetooth option so that you can operate a data display without holding onto the cable at the same time.

- **SDI-12 and TTL adapters** – use the SDI-12 adapter to convert your multiprobe output from RS-232 to SDI-12; use the TTL adapter to make your multiprobe output compatible with third-party devices (such as some data loggers) that require TTL signal levels.

- **battery packs for logging** – order the Internal Battery Pack when you order a 3.5", 4", or 4.5" multiprobe if your application is unattended logging, or order an External Battery Pack at any time for your 2", 2.5", 3", Sub2, and Sub3 multiprobes if your application is unattended logging.



- **calibration solutions** – check out our supply of all the popular calibration solutions at good prices and delivery times.

# Eureka Sub3 Water-Quality Multiprobe

## RELATED PRODUCTS

**Eureka Sub2 water-quality multiprobe** – the Sub2 is an economical Eureka 2 multiprobe specially configured with temperature, optical dissolved oxygen, pH, conductivity/ salinity/ TDS, ORP, and depth or level built into a housing less than 2” diameter.



**Eureka 2 water-quality multiprobe** – the Eureka 2 provides your choice of up to 14 sensors from a selection of 22 sensors for the most extensive data requirements and most demanding field conditions.

**Eureka DD2 data displays** – the DD2 is a waterproofed PDA useful as a field data display for Eureka 2 multiprobes while retaining all the utility of a PDA; it uses the same user-interface software as the Eureka 2's PC interface so you don't have to learn two software structures.



# Eureka Sub3 Water-Quality Multiprobe

## RELATED PRODUCTS



**Eureka TS2 telemetry systems** – the TS2 telemetry system installs in the field in minutes with no user programming; you can view data at any Internet connection. The TS2 uses your choice of cellular or satellite communications for high reliability at lowest cost.

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