

Water Quality Meter

Waterproof, Portable



Description

Excelsior Energy's water quality meter is a waterproof portable logging multiparameter meter that monitors up to 12 different water quality parameters including 6 measured and 6 calculated.

The microprocessor based multi-sensor probe allows for the measurement of key parameters including pH, ORP, conductivity, dissolved oxygen, and temperature.

The probe transmits readings digitally to the meter, where data points can be displayed and logged.

The complete system is simple to set up and easy to use. The meter is supplied with all necessary accessories and packaged in a durable carrying case.



Features

- Backlit Graphic LCD Display
- Waterproof Protection
- Quick Connect Digital Probes
- Auto-sensor
- Automatic temperature compensation - Integrated temperature sensor allows for automatic temperature compensation of pH, conductivity, and dissolved oxygen measurements.
- Automatic Barometric Pressure Compensation - The meter features a built-in barometer with user-selectable units for dissolved oxygen pressure compensation.
- Standard or Quick Calibration
 - Quick Calibration provides a speedy, single point calibration for pH, conductivity, and dissolved oxygen.
 - Standard pH calibration options are available for calibrating up to three points from a selection of five standard buffers and one custom buffer. Conductivity calibration is a single point from six standard selections or one custom standard. Dissolved oxygen calibration is up to two standard points or a single custom point.
- Long Battery Life - The display of the meter has a battery icon indicator to show the remaining power. The meter uses four 1.5V AA batteries that provide up to 360 hours of battery life.
- Rugged thermoformed carrying case – Water quality meter, probe, and all accessories are supplied in a rugged carrying case. The inside compartment of the carrying case is thermoformed to securely hold and protect all of the components.

Specifications		METRIC	IMPERIAL
pH	pH Range	Min 0.00	Max 14.00
	pH Resolution	0.01	
	pH Accuracy	+/- 0.02	
	pH Calibration	automatic one, two, or three points automatic recognition of five standard buffers (pH 4.01, 6.86, 7.01, 9.18, 10.01)	
Dissolved Oxygen (DO)	DO Range	Min 0.0% Max 500.0 %	Min 0.00 ppm Max 50.00 ppm
	DO Resolution	0.1%	
	DO Accuracy	0.0 to 300.0% saturation 0.00 to 30.00 ppm	+/- 1.5% of reading or +/- 1.0% saturation whichever is greater
		300.0 to 500.0% saturation 30.00 ppm to 50.00 ppm	+/- 3% of reading

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Conductivity	EC Range	0 to 9999 uS/cm	0.000 to 200.0 mS/cm (Absolute EC 400.0 mS/cm)
	EC Resolution	0 – 9999 uS/cm 10.00 to 99.99 mS/cm 100.0 to 400.0 mS/cm	1 uS/cm 0.01 mS/cm 0.1 mS/cm
	EC Accuracy	+/- 1% of reading or +/- 1 uS/cm whichever is greater	
	TDS Range	0 to 9999 ppm	
	TDS Resolution	1 ppm	
	TDS Accuracy	+/- 1% of reading or +/-1 ppm (mg/L), whichever is greater	
	Conductivity Calibration	automatic single point, with six standard solutions (84 uS/cm, 1413 uS/cm, 5.00 mS/cm, 12.88 mS/cm, 80.0 mS/cm, 111.8 mS/cm) or custom point	
Salinity	Salinity Range	Min 0.00 PSU	Max 70.00 PSU
	Salinity Resolution	0.001 PSU	
	Salinity Accuracy	+/- 2% of reading or +/- 0.01 PSU whichever is greater	
	Salinity Calibration	See Conductivity calibration	
Atmospheric Pressure	Pressure Range	Min 8.702 psi Max 16.436 psi	Min 60.00 kPa Max 113.32 kPa
	Pressure Resolution	0.001 psi	0.01 kPa
	Pressure Accuracy	+/- 0.058psi / 0.4kPa within +/- 15 C from temp cal	
	Pressure Calibration	automatic at one custom point	
Temperature	Temperature Range	Min -5.00 °C Max 55.00 °C	Min 23.00 °F Max 131.00 °F
	Temperature Resolution	0.01 °C	0.01 °F
	Temperature Accuracy	+/- 0.15 °C	
	Temperature Calibration	automatic at one custom point	
	Temperature Compensation	automatic from -5 to 55 °C (23 to 131 °F)	
Other	Logging Memory	45,000 records (Continuous logging or log-on-demand of all parameters)	
	Logging Interval	Min 1 second	Logging Interval
	Battery Type/Life	1.5V AA batteries (4) approximately 360 hours of continuous use without backlight (50 hours with backlight)	
	Environment	0 to 50 °C (32 to 122 °F) RH 100% (IP67)	
	Dimensions	185 x 93 x 35.2 mm	7.3 x 3.6 x 1.4"