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SPECIFICATIONS

DOCUMENT #W56-07

EcoSense pH100A pH/ORP/mV/Temperature

Accurate, economical, handheld measurements



Parameters:

pH

Temperature

mV/ORP/Redox (oxidation reduction potential)

The EcoSense® line of compact, handheld instruments provides the most accurate data in the most affordable format. The instruments feature an easy-to-use interface, one-hand operation, IP67 waterproof case, and low cost of ownership over the life of the product. The pH100A measures pH, mV/ORP and temperature with the following features:

- IP67 Waterproof housing
- 1-year instrument warranty
- Internal buffer recognition (US or NIST buffer sets)
- Auto/Manual temperature compensation
- Electrode offset recognition
- Low battery indicator with 1000 hour battery life
- Displays electrode efficiency
- Autolock mode holds stable readings on display
- Auto shutoff function after 30 minutes of inactivity
- 50 data set memory

The pH100A is designed for quick, accurate results in an economical platform. The ability to measure pH, mV/ORP, and temperature in a simple, compact handheld allows the instrument to be used in multiple applications. With a one-year instrument warranty, six-month electrode warranty, calibration backup, and a variety of cable/sensor options (glass bulb, flat tipped, and piercing tipped), the pH100A will fit your needs.

The EcoSense pH100A is also available as a kit with a 1- or 4-meter cable.



pH100A Instrument Only Specifications

Temperature	Range	-10 to +120°C (14 to 248°F)
	Resolution	0.1°C
	Accuracy	±0.3°C ±1 digit
pH	Range	-2 to 16 units
	Resolution	0.01 unit
	Accuracy	±0.01% of full scale or ± 0.03 pH units System Accuracy (Instrument, sensor, cable): ±0.2 pH units
mV	Range	-1999 to +1999 mV
	Resolution	1 mV
	Accuracy	±0.1% ±1 digit

pH100A Additional Specifications

Operating range

Temperature	0° to 50° C (32 to 122°F)
Relative Humidity	up to 95%

Water rating IP67 waterproof

Size 78 mm wide (widest point) x 184 mm long x 37 mm deep (3.1 in. x 7.25 in. x 1.45 in.)

Weight with battery 272 grams (0.6 lb.)

ATC Probe Thermistor, 10kΩ / 25° C

Battery One 9 volt included with purchase; 1000 hour battery life

pH temp compensation Auto/Manual -10.0° C to 120.0°C (14 to 248°F)

pH buffer recognition US (4.00, 7.00, & 10.00 at 25°C or 4.00, 7.02 & 10.06 at 20°C) or NIST (4.01, 6.86, & 9.18 at 25°C or 4.00, 6.87 & 9.23 at 20°C)

pH calibration temp 0°C to 60°C (32 to 140°F)

pH offset recognition ±90 mV at pH 7.00 or 6.86

pH slope recognition ±30% at pH 4.00, 4.01, 9.18, or 10.01

Calibration back-up Yes

Audio feedback Yes, all keys

Autolock feature Yes

Memory 50 data set reviewable memory

Auto shutoff Automatically powers off after 30 minutes of inactivity

pH100A Ordering Information (order items separately or as a kit)

606075	pH100A pH, mV and temperature instrument only
606067	pH100A instrument, 1-meter cable and electrode, hard-sided carrying case kit
606033	pH100A instrument, 4-meter cable and electrode, hard-sided carrying case kit
605377	1-meter waterproof field cable with combo pH electrode and temperature
605378	4-meter waterproof field cable with combo pH electrode and temperature
605374	1-meter pH laboratory grade cable and electrode
605080	1-meter pH piercing tipped, double-junction cable and electrode
605081	1-meter pH flat tipped, double-junction cable and electrode
605376	1-meter ORP laboratory grade cable and electrode
605375	1-meter temperature cable and probe
606031	Hard-sided, plastic carrying case with form fitted foam insert; 31.75 x 22.86 x 9.4 cm (12.5 x 9 x 3.7 in)
605380	pH 4, 7, 10 electrode simulator (ensures instrument performance)
603824	pH Buffers; Assorted case of 2 pints each of 4, 7, and 10

YSI

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■ Printed in the USA. W56-07 February, 2017



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