



edge[®]

pH, EC and DO Meter

A lightweight and versatile meter that can be used in portable, wall-mount and benchtop configurations



ติดต่อบริษัท เนโอเนิกส์ จำกัด
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edge[®]
pH • EC • DO

The world's most
innovative pH, EC
and DO meter

edge[®] is thin and lightweight, measuring just 1/2" (12 mm) thick and weighing less than 9 ounces (250 g). edge[®] has an incredibly wide viewing angle, 5.5" (14 cm) LCD and a sensitive capacitive touch keypad.



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Digital electrodes

edge® measures pH, conductivity and dissolved oxygen through its unique digital electrodes. These digital electrodes are auto-recognized, providing sensor type, calibration data and a serial number when connected to edge® by an easy to plug-in 3.5mm connector.

edge® features Hanna's exclusive pH CAL Check™ to warn you if the electrode in use is not clean or if your buffers are contaminated during calibration. We have added Sensor Check™ for pH sensors with a matching pin. Our Sensor Check™ feature warns you if the pH bulb is cracked and/or the junction of the electrode is compromised.



3

parameters-pH,
EC and DO

0

footprint

0.5

inch thick
(12.7 mm)

8.8

oz. weight
(250 g)

8

hours battery
life

5.5

inch display
(14 cm)

2

USB ports

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A hybrid meter that can be used in portable, wall-mount and benchtop configurations

The versatile design of edge® enables it to be used as a portable, wall-mount or benchtop meter. edge® simplifies measurement, configuration, calibration, diagnostics, logging and transferring data directly to a computer or USB drive.



• Portable field unit

- edge® is ideal for field use due to its light weight, large screen and thin design. It can be easily slipped into a backpack or messenger bag. Up to 8 hours of battery life when used as a portable device



• Wall mount cradle

- The included wall mount cradle makes it easy to conserve space on the benchtop and can charge edge® with the AC adapter. Ideal for continuous monitoring applications



• Electrode holder with built-in cradle

- The included electrode holder features a swivel, adjustable arm with a built-in cradle to hold edge® securely in place at the optimum viewing angle

edge® technical features



- **Two USB ports**
edge® includes one standard USB for exporting data to a flash drive. edge® also includes one micro USB port for exporting files to your computer as well as charging edge® when the cradle is not available.



- **Clear, full text readout**
edge® features clear, full text guides displayed on the bottom of the screen. There is no need to decipher scrambled abbreviations or symbols; these helpful messages guide you through every process quickly and easily.



- **Data logging**
edge® allows you to store up to 1000 log records of data. Logging data sets include readings, GLP data, date and time.



- **GLP**
Data from the last calibration you perform is stored in the sensor including the date, time and standards. When any sensor (pH, EC, or DO) is connected to edge®, GLP data is automatically transferred.



- **Basic mode**
You can use edge® in basic mode—ideal for routine measurements by displaying a simplified screen and features.

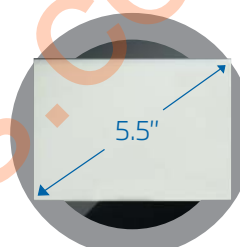


- **CAL Check™**
(edge® pH measurement only)
edge® features Hanna's exclusive CAL Check™ technology to warn you if the electrode bulb is not clean or if the buffers are contaminated during calibration.

edge® design features



- **Capacitive touch keypad**
edge® features a capacitive touch keypad that gives a distinctive, modern look. Since the keypad is part of the screen, your buttons can never get clogged with sample residue.



- **Easy to read LCD**
edge® features a 5.5" (14 cm) LCD display that you can clearly view from over 5 m (16.4'). The large display, with its wide 150° viewing angle, provides one of the easiest to read LCDs in the industry.



- **Zero footprint**
Using the wall mount cradle (included), edge® can be placed on a wall, leaving zero footprint on the benchtop space. The cradle has a built-in connector to power edge® and charge its batteries.



- **3.5 mm probe input**
Plugging an electrode in has never been simpler; no alignments or broken pins, simply connect the 3.5 mm plug and begin. Digital electrodes are automatically recognized.



- **Sleek design**
Incredibly thin and lightweight, edge® measures just 1/2" (12 mm) thick and weighs just 8.8 ounces (250 g).

Accepts pH, EC and DO edge® compatible probes



edge pH parameter features

- Resolution selectable from 0.01 and 0.001 pH
- Range -2.000 to 16.000 pH
- Accuracy ± 0.002 pH for 0.001 pH resolution; ± 0.01 for 0.01 resolution
- Data logging
 - Manual log-on-demand
 - Manual log-on-stability
 - Interval logging
- Temperature readout ($^{\circ}\text{C}$ or $^{\circ}\text{F}$)
- Automatic Temperature Compensation (ATC)
- CAL Check™ Indicators:
 - Probe condition
 - Response time
 - Check buffer
 - Clean electrode
- Sensor Check™ Indicators:
 - Broken electrode
 - Clogged junction
- GLP data
 - Records date, time, offset, slope and buffers used during calibration
- Five-point calibration
 - A choice of seven pre-programmed buffers plus two selectable custom buffers
- Calibration tag on screen
 - Identifies buffers used for current calibration
- Calibration expiration warning



edge® EC parameter features

- Digital four-ring conductivity probe
 - Covers all ranges from 0.00 $\mu\text{S}/\text{cm}$ to 500 mS/cm (absolute EC)
- Accuracy
 - $\pm 1\%$ of the reading ($\pm 0.05 \mu\text{S}/\text{cm}$ or 1 digit, whichever is greater)
- Calibration
 - Offset (0 $\mu\text{S}/\text{cm}$) and cell factor calibration
 - Choice of 5 standards (auto-recognition)
- Data logging
 - Manual log-on-demand
 - Manual log-on-stability
 - Interval logging
- Auto-ranging or manual range selection
- EC, TDS and salinity reading modes
- Temperature compensation
 - Automatic
 - NoTC (absolute)
- GLP data
 - Records date, time, offset and cell factor
 - Data of the last performed calibration is stored in the probe: date, time, cell constant, temperature coefficient, reference temperature and battery status. When the probe is connected to edge®EC, GLP data is automatically transferred
- Adjustable EC to TDS conversion factor
- Adjustable temperature correction coefficient
- Seawater salinity units
 - % NaCl
 - PSU
 - g/L



edge® DO parameter features

- Clark type digital polarographic probe with easy-to-replace membrane cap
 - Covers all ranges from 0.00 to 45.00 mg/L (ppm); 0.0 to 300% saturation
- Accuracy $\pm 1.5\%$ full scale
- One or two-point calibration (HI7040), 0% (solution) and 100% (air)
- Data logging
 - Manual log-on-demand
 - Manual log-on-stability
 - Interval logging
- Automatic Temperature Compensation from 0 to 50 $^{\circ}\text{C}$
- GLP data
 - Records date, time, calibration standards, altitude value and salinity value
- Altitude compensation from -500 to 4000 meters (-1640 to 13,123')
- Salinity compensation from 0 to 40g/L

Specifications

Specifications

edge® (Using pH Kit)	pH	Range*	-2.00 to 16.00 pH; -2.000 to 16.000 pH†
		Resolution	0.01 pH; 0.001 pH†
		Accuracy (@25°C/77°F)	±0.01 pH; ±0.002 pH†
		Calibration	automatic, up to three points (five points†) calibration, 5 standard (7 standard†) buffers available (1.68†, 4.01 or 3.00, 6.86, 7.01, 9.18, 10.01, 12.45†) and two custom buffers†
		Temperature Compensation*	automatic, -5.0 to 100.0°C (23.0 to 212.0°F) (using integral temperature sensor)
		Electrode Diagnostics	standard mode: probe condition, response time and out of calibration range
mV pH	Range	±1000 mV	
	Resolution	0.1 mV	
	Accuracy (@25°C/77°F)	±0.2 mV	
Additional Specifications	Probe (included in pH kit)	HI11310 digital glass body pH electrode with 3.5 mm (1/8") connector and 1 m (3.3') cable	
	Logging	up to 1000† (400 for basic mode) records organized in: manual log-on-demand (max. 200 logs), manual log-on-stability (max. 200 logs), interval logging† (max. 600 samples; 100 lots)	
edge® (Using EC Kit)	EC	Range	0.00 to 29.99 µS/cm; 30.0 to 299.9 µS/cm; 300 to 2999 µS/cm; 3.00 to 29.99 mS/cm; 30.0 to 200.0 mS/cm; up to 500.0 mS/cm absolute EC**
		Resolution	0.01 µS/cm; 0.1 µS/cm; 1 µS/cm; 0.01 mS/cm; 0.1 mS/cm
		Accuracy (@25°C/77°F)	±1% of reading (±0.5 µS or 1 digit, whichever is greater)
		Calibration	single cell factor calibration; six standards available: 84 µS/cm, 1413 µS/cm, 5.00 mS/cm, 12.88 mS/cm, 80.0 mS/cm, 118.8 mS/cm, one point offset: 0.00 µS/cm
		Temperature Coefficient	0.00 to 6.00%/°C (for EC and TDS only), default value is 1.90%/°C
	TDS	Range	0.00 to 14.99 mg/L (ppm); 15.0 to 149.9 mg/L (ppm); 150 to 1499 mg/L (ppm); 1.50 to 14.99 g/L; 15.0 to 100.0 g/L; up to 400.0 g/L absolute TDS using 0.80 conversion factor**
		Resolution	0.01 mg/L (ppm); 0.1 mg/L (ppm); 1 (ppm); 0.01 g/L; 0.1 g/L
		Accuracy (@25°C/77°F)	±1% of reading (±0.03 ppm or 1 digit, whichever is greater)
		Calibration	through EC calibration
	Salinity†	Range	0.0 to 400.0 % NaCl; 2.00 to 42.00 PSU; 0.0 to 80.0 g/L
		Resolution	0.1 % NaCl; 0.01 PSU; 0.01 g/L
		Accuracy (@25°C/77°F)	±1% of reading
		Calibration	PSU and g/L through EC calibration; % NaCl – one-point with HI7037 sea water standard
	Additional Specifications	Probe (included in EC kit)	HI763100 digital four-ring conductivity probe with 3.5 mm (1/8") connector and 1 m (3.3') cable
		Logging	up to 1000† (400 for basic mode) records organized in: manual log-on-demand (max. 200 logs), manual log-on-stability (max. 200 logs), interval logging† (max. 600 samples; 100 lots)
edge® (Using DO Kit)	DO	Range	0.00 to 45.00 ppm (mg/L); 0.0 to 300.0 % saturation
		Resolution	0.01 ppm (mg/L); 0.1 % saturation
		Accuracy	± 1.5% of reading ±1 digit
		Calibration	one or two-point at 0% (HI7040 solution) and 100% (in air)
		Temperature Compensation	ATC (0 to 50°C; 32.0 to 122.0°F)*
		Salinity Compensation	0 to 40 g/L (with 1 g/L resolution)
	Altitude Compensation	-500 to 4000 m (-1640 to 13120') (with 100 m (328') resolution)	
Additional Specifications	Probe (included in DO kit)	HI764080 digital dissolved oxygen electrode with 3.5 mm (1/8") connector and 1 m (3.3') cable (included)	
	Logging	up to 1000 records organized in: manual log-on-demand (max. 200 logs), manual log-on-stability (max. 200 logs), interval logging (max. 600 samples; 100 lots)	
All Models	Temperature	Range*	-20.0 to 120.0°C; -4.0 to 248.0°F
		Resolution	0.1°C; 0.1°F
		Accuracy	±0.5°C; ±0.9°F
	Additional Specifications	Connectivity	1 USB port for storage; 1 micro USB port for charging and PC connectivity
		Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing
		Power Supply	5 VDC adapter (included)
		Dimensions	202 x 140 x 12 mm (7.9" x 5.5" x 0.5")
		Weight	250 g (8.82 oz.)

* temperature limits will be reduced to actual probe limits
** with temperature compensation function disabled
† standard mode only

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All edge® single parameter meters are supplied with:



benchtop docking station with electrode holder wall-mount cradle USB cable 5 VDC power adapter edge® and electrode quality certificates instruction manual

In addition to these components, the following meter-specific items are also included:

edge® pH kit: **HI2020-01** (115V) and **HI2020-02** (230V) also includes:



HI11310
glass body, refillable pH electrode

4 sachets of pH 7.01 buffer solutions

2 sachets of pH 4.01 buffer solutions

2 sachets of pH 10.01 buffer solutions

2 sachets of electrode cleaning solutions

edge® EC kit: **HI2030-01** (115V) and **HI2030-02** (230V) also includes:



HI763100
conductivity probe

4 sachets of 1413 µS/cm conductivity standard

2 sachets of 12880 µS/cm conductivity standard

2 sachets of 5000 µS/cm conductivity standard

2 sachets of electrode rinse solution

edge® DO kit: **HI2040-01** (115V) and **HI2040-02** (230V) also includes:



HI764080
dissolved oxygen electrode

HI70415
refill electrolyte solution

2 DO membrane caps

2 DO membrane cap o-rings

pH electrodes



HI11310
Single ceramic, double junction, glass body, refillable pH electrode with temperature sensor
Recommended for laboratory and general purpose



HI11311
Single ceramic, double junction, glass body, refillable pH electrode with temperature sensor and matching pin
Recommended for laboratory and general purpose



HI12300
Single ceramic, double junction, gel filled, PEI body, pH electrode with temperature sensor
Recommended for field applications



HI12301
Single ceramic, double junction, gel filled, PEI body, pH electrode with temperature sensor and matching pin
Recommended for field applications



HI10530
Triple ceramic, double junction, glass body, refillable pH electrode with conical tip and temperature sensor
Recommended for fats, creams, soil and low conductivity samples



HI10430
Triple ceramic, double junction, glass body, refillable pH electrode with temperature sensor
Recommended for low conductivity samples



HI10480
PTFE reference, double junction, Clogging Prevention System (CPS), glass body pH electrode with temperature sensor
Recommended for wine analysis and solutions with a high concentration of suspended solids



FC2320
Open viscolene reference electrolyte, double junction, PVDF body pH electrode with conical tip and temperature sensor
Recommended for meat applications with use of optional FC098 20 mm (0.8") or FC099 35 mm (1.4") stainless steel blade



FC2100
Open viscolene reference electrolyte, double junction, glass body pH electrode with conical tip and temperature sensor
Recommended for dairy analysis including milk



FC2020
Open viscolene reference electrolyte, double junction, PVDF body pH electrode with conical tip and temperature sensor
Recommended for dairy analysis including cheese, yogurt, and other semi-solids

Conductivity probe



HI763100
Conductivity probe with temperature sensor
Recommended for general purpose

Dissolved oxygen electrode



HI764080
Dissolved oxygen electrode with temperature sensor
Recommended for general purpose

LINE ID:neonicstool



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