



## edge<sup>®</sup>pH–Innovation in a Single Parameter

edge pH's groundbreaking design is the culmination of Hanna's vision, design capabilities, integrated production and world class R&D. edge pH is a single meter that can measure pH and ORP and is incredibly easy to use.

### Additional feature information

- Resolution selectable from 0.01 and 0.001 pH
- Range -2.000 to 16.000 pH
- Accuracy  $\pm 0.002$  pH for 0.001 pH resolution;  $\pm 0.01$  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 pH technical features



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



- **Clear, full text readout**
  - edge pH 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 pH 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 pH, GLP data is automatically transferred.



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

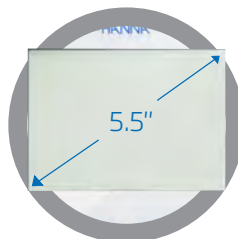


- **CAL Check™**
  - edge pH features Hanna's exclusive CAL Check™ technology to warn you if the electrode bulb is not clean or if the buffers are contaminated during calibration.

## edge pH design features



- **Capacitive touch keypad**
  - edge pH 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 pH 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 pH can be placed on a wall, leaving zero footprint on the benchtop space. The cradle has a built-in connector to power edge pH 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 pH measures just 1/2" (12 mm) thick and weighs just 8.8 ounces (250 g).

### Accepts edge compatible pH probes

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

## A hybrid meter that can be used in portable, wall-mount and bench-top configurations

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



- **Portable field unit**
  - edge pH 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 pH 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 pH securely in place at the optimum viewing angle

## Digital electrodes



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

- Simply connect each probe via the 3.5 mm jack; digital Smart electrodes are automatically recognized

## CAL Check™

edge pH includes powerful algorithms to alert the user of potential problems during the pH calibration process. These indicators include when to clean the electrode, check the buffer, the response time, and the overall condition of the electrode. The overall condition of the electrode is based on both the offset and slope characteristic.

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.

Specifications	edge pH
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)
mV pH	Electrode Diagnostics standard mode: probe condition, response time and out of calibration range
	Range ±1000 mV
	Resolution 0.1 mV
ORP	Accuracy (@25°C/77°F) ±0.2 mV
	Range ±2000 mV
	Resolution 0.1 mV
Temperature	Accuracy (@25°C/77°F) ±0.2 mV (±999.9 mV); ±1 mV (±2000 mV)
	Calibration one-point calibration
	Range* -20.0 to 120.0°C; -4.0 to 248.0°F
Additional Specifications	Resolution 0.1°C; 0.1°F
	Accuracy ±0.5°C; ±0.9°F
	Probe HI11310 digital glass body pH electrode with 3.5 mm (1/8") connector and 1 m (3.3') cable
Additional Specifications	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)
	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.)
	Weight 250 g (8.82 oz.)
Ordering Information	<b>HI2002-01</b> (115V) and <b>HI2002-02</b> (230V) edge®pH includes: HI11310 glass body, refillable pH electrode, pH 4 buffer solution sachets (4), pH 7 buffer solution sachets (2), pH 10 buffer solution sachets (2), electrode cleaning solution sachets (2), benchtop docking station with electrode holder, wall-mount cradle, USB cable, 5 VDC power adapter, quality certificates and instruction manual.

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

## pH electrodes



### HI11310 (included)

Single ceramic, double junction, glass body, refillable pH electrode with temperature sensor

Recommended for laboratory and general purpose



### Sensor Check

### HI11311

Single ceramic, double junction, glass body, refillable pH electrode with temperature sensor and matching pin

Recommended for laboratory and general purpose



### 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



### HI12300

Single ceramic, double junction, gel filled, PEI body, pH electrode with temperature sensor

Recommended for field applications



### Sensor Check

### HI12301

Single ceramic, double junction, gel filled, PEI body, pH electrode with temperature sensor and matching pin

Recommended for field applications



### 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