Multiparameter bench meter mod. EDGE HI 2040-02 kit DO

Edge® is thin and light, measures just 1 cm thick and is equipped with multiple functions capable of satisfying even the most demanding customers. For those who prefer to use edge® with simplified screens and functionalities there is the Basic Mode, ideal for routine measurements. For those who require advanced functionality, the full standard operating mode is available.
Additional probes to measure pH or conductivity can be connected to the edge® HI2040 DO kit when needed.
Digital electrodes edge® uses special digital electrodes, equipped with an integrated microchip. All sensors are automatically recognized by the instrument as soon as they are connected and send information on the calibration and serial number of the electrode to edge®. With a digital electrode it is possible to change the electrode, without having to perform a new calibration, since the calibration data is stored in the electrode and not in the instrument. This guarantees maximum flexibility for users who measure pH with more than one electrode.

CAL Check
Hanna's unique CAL Check system analyzes the response of the pH electrode in the buffers during the calibration procedure, alerting the user to potential problems, such as contaminated buffers and the need to clean the electrode. After calibration, the display shows the response time and probe condition indicators. The "probe condition" indicator is based on the electrode offset and slope characteristics.

3.5 mm mini-jack connector
The connection of the electrodes has never been so practical, fast and safe. All edge® probes are equipped with a 3.5mm mini-jack digital connector, which makes sensor replacement really easy.

Edge® is extraordinarily versatile. It can be used in different ways and environments, without taking up the space of a traditional bench instrument.

Wall support
edge® can be installed on the wall, using the special support supplied, thus freeing up valuable space on your workbench.

Multifunctional bench stand
The supplied bench stand also functions as a recharging station and is equipped with an electrode holder with swivel arm.

e **dge® is incredibly thin, measures just 1cm thick, has a battery life of 8 hours and features two USB ports.**

Double USB port
edge® is equipped with a standard USB port for exporting data directly to a USB key and a second micro USB port for connection to a PC and for battery charging.

Data storage
Storage of up to 1000 data. All readings include date, time and GLP information which can be transferred directly to USB memory or to PC (Windows or Mac).

Two operating modes
edge can be used in "Extended" or "Basic" mode. With the extended mode all functions are available, while the basic mode reduces the number of functions, increasing ease of use. For example, in extended mode the calibration can be done at 5 points with 2 customizable values, while in basic mode it can be done at 3 points with 5 stored values.

edge® HI2040-02 DO kit is supplied complete with:
bench stand with electrode stand,

wall bracket,
HI764080 DO probe,
HI7041S filling solution,
2 membranes with cap and o-ring,
USB cable,
power adapter,
quality certificate,
USB stick with manual in Italian.

Technical data

PH scale	-2,000 to 16,000 pH, -2.00 to 16.00 pH, ± 1000 mV
PH resolution	0.001 pH, 0.01 pH, 0.1 mV
PH accuracy	± 0.002 pH, ± 0.01 pH, ± 0.2 mV
PH calibration	5 points (Standard mode) 1.68, 4.01 (3.00 †), 6.86, 7.01, 9.18, 10.01, 12.45, and two customizable values; 3 points (Basic mode) 4.01; 6.86; 7.01; 9.18; 10.01
PH Temperature Compensation	ATC: from -5.0 to 100.0ºC; 23.0 to 212.0 ° F *
CAL Check pH	Probe condition, response time, glass bulb and reference junction diagnostics (HI 11311 and HI 12301 only)
EC scale	from 0.00 to 29.99 µS / cm; from 30.0 to 299.9 µS / cm; from 300 to 2999 µS / cm; from 3.00 to 29.99 mS / cm; from 30.0 to 200.0 mS / cm; up to 500.0 mS (absolute EC) **
EC resolution	0.01 µS / cm, 0.1 µS / cm, 1 µS / cm, 0.01 mS / cm, 0.1 mS / cm
EC accuracy	± 1% of reading (± 0.5 µS / cm or 1 digit, whichever is greater)
EC calibration	1 offset point (probe calibration in air, 0.00 µS / cm); 1 slope point with EC standard (84 µS / cm, 1413 µS / cm, 5.00 mS / cm, 12.88 mS / cm, 80.0 mS / cm and 118.8 mS / cm)
TDS scale	from 0.00 to 14.99 mg / l (ppm); from 15.0 to 149.9 mg / l (ppm); from 150 to 1499 mg / l (ppm); from 1.50 to 14.99 g / l; from 15.0 to 100.0 g / l; up to 400.0 g / l (TDS absolute **) with TDS conversion factor 0.8
TDS Resolution	0.01 ppm, 0.1 ppm, 1 ppm, 0.01 g / l, 0.1 g / l
TDS accuracy	± 1% of reading (± 0.03 ppm or 1 digit, whichever is greater)
TDS calibration	Through EC calibration
EC / TDS Temperature Compensation	Automatic from 0.0 to 100º C or NoTC
Temperature Correction Coefficient	0.00 to 6.00% / ºC (only for EC and TDS). The default value is 1.90% / ºC
EC / TDS Conversion Factor	from 0.40 to 0.80
Salinity scale (% NaCl)	from 0.0 to 400.0% NaCl ***

Salinity Resolution (% NaCl)	0.1% NaCl
Salinity Accuracy (% NaCl)	± 1% of reading at 25 ° C
Salinity Calibration (% NaCl)	1 point with Standard HI 7037L
Salinity Scale (PSU)	from 2.00 to 42.00 PSU ***
Salinity Resolution (PSU)	0.01 PSU
Salinity Accuracy (PSU)	± 1% of reading
Salinity Calibration (PSU)	through EC calibration
Salinity scale (ppt)	0.0 to 80.0 g / l ****
Salinity Resolution (ppt)	0.01 g / l
Salinity Accuracy (ppt)	± 1% of reading at 25 ° C
Salinity Calibration (ppt)	through EC calibration
Dissolved Oxygen Scale	from 0.00 to 45.00 ppm (mg / l), from 0.0 to 300.0% saturation
Dissolved Oxygen Resolution	0.01 ppm (mg / l); 0.1% saturation
Dissolved Oxygen Accuracy	± 1.5% of reading or ± 1 digit
Dissolved Oxygen Calibration	1 or 2 points, at 0% (HI7040 zero oxygen solution) and 100% (in air)
Dissolved Oxygen Temperature Compensation	automatic from 0 to 50 ºC; 32.0 to 122.0 ° F
Salinity compensation	0 to 40 g / l (resolution 1 g / l)
Altitude compensation	-500 to 4000 m (100 m resolution)
Temperature scale	-20.0 to 120.0 ºC, -4.0 to 248.0 ° F
Resolution Temperature	0.1 ° C, 0.1 ° F
Accuracy Temperature	± 0.5 ° C, ± 0.9 ° F
PH electrode	HI11310 pH electrode (included)
Registration Type	Sample storage (max. 200 records); Manual with reading stability (max. 200 records); automatic storage at programmable intervals *** (Max. 600 records; 100 lots)
Registration Memory	Up to 1000 records in total
Connection	USB (for USB Key connection); mico-USB (for connection to PC)
Display	LCD
Battery Type / Duration	built-in rechargeable battery with a duration of up to 8 hours of continuous use
power supply	5 VDC adapter (included)
Terms of Use	from 0 to 50 ° C; RH max 95% without condensation
Dimensions	202 x 140 x 12.7mm (8 "x 5.5" x 0.5 ")
Weight	250 g (8.82 oz)
Notes	* the temperature range is limited to the working temperature of the specific probe / sensor used) ** with temperature compensation function disabled *** standard mode only † The buffer at pH 3.00 is visible only when using the specific electrode (HI10480) and replaces the value at pH 4.01

Code	Description
HI204002	Multiparameter bench meter mod. EDGE HI 2040-02 kit DO