edge® EC

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

edge®EC measures conductivity through its unique digital conductivity probe. The digital conductivity probe is auto-recognized, providing type, calibration data and a serial number when connected to edge®EC by an easy to plug-in 3.5mm connector. The versatile design of edge®EC enables it to be used as a handheld, benchtop or wall-mounted meter. edge®EC simplifies measurement, configuration, calibration, diagnostics, logging and transferring data directly to a computer or USB drive.

- **Digital four-ring conductivity probe**
  - Covers all ranges from 0.00 µS/cm to 500 mS/cm (absolute EC)

- **Accuracy**
  - ± 1% of the reading ± (0.05 µS/cm or 1 digit, whichever is greater)

- **Calibration**
  - Offset (0 µS/cm) and cell factor calibration
  - Choice of 5 standards

- **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 constant value (K)
  - 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**

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

edge® EC Technical Features

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

- **Clear, full text readout**
  edge®EC 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®EC allows you to store up to 1000 log records of data. Data sets include readings, GLP data, date and time.

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

Accepts edge®EC compatible conductivity probes

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edge® EC Design Features

- **Capacitive touch keypad**
  edge®EC 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. For faster scrolling, simply hold down the arrow keys.

- **Easy to read LCD**
  edge®ECfeatures 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 provide one of the easiest to read LCD's in the industry.

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

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

- **Portable field unit**
  - edge®EC is ideal for field use due to its light weight, large screen and thin design. It can be slipped into a back pack 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®EC with the AC adapter. Ideal for continuous monitoring applications.

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

Specifications		edge®EC
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)**, with 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 (0.8 TDS Factor)
	Accuracy (@25°C/77°F)	±1% of reading ±(0.03 ppm or 1 digit, whichever is greater)
	Calibration	through EC calibration
	TDS Factor	0.40 to 0.80 (default value is 0.50)
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	one-point with HI7037 100% NaCl sea water standard
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	Temperature Compensation	automatic -5.0 to 100.0°C (23.0 to 212.0°F); NoTC – none, absolute conductivity.
	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	one USB port for storage; one micro USB port for charging and PC connectivity
	Probe	HI763100 digital four-ring conductivity probe with 1/8"(3.5mm) connector and 1 m (3.3') cable
	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.)
Ordering Information		**HI2003-01** (115V) and **HI2003-02** (230V) edge®EC includes: HI763100 Conductivity probe, 1413 µS/cm conductivity standard sachets (3), 12880 µS/cm conductivity standard sachets (3), benchtop docking station with electrode holder, wall-mount cradle, USB cable 5 VDC power adapter, quality certificate and instruction manual.

EC , TDS and salinity solutions begin on page 6.42

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