

# edge Dedicated Conductivity/TDS/Salinity Meter – HI2003

SKU: HI 2003-01

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## RESUMEN

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Hanna Instruments is proud to introduce the world's most innovative Conductivity/TDS/Salinity meter: edge. edge's groundbreaking design is the culmination of Hanna's vision, design capabilities, integrated production and world-class R&D. edge is a single meter that can measure **Conductivity, TDS and Salinity** and is incredibly easy to use.

### Four ring conductivity Probe

edge EC/TDS/Salinity utilizes four ring conductivity probe technology that allows the user to measure samples from very low conductivity to very high conductivity. edge is an auto-ranging meter that will select the appropriate range for the measurement to ensure the highest accuracy available.

### Capacitive Touch

edge features a capacitive touch keypad that gives a distinctive, modern look. The keypad is sensitive enough to be used with laboratory gloves and has a fast response. Since the keypad is part of the screen, there are no buttons to get clogged with sample residue.

### Large Easy to Read LCD

edge features a 5.5" LCD display that you can clearly view from over 5 meters away. The large display and its wide 150° viewing angle provide one of the easiest to read LCD's in the industry.

## DESCRIPCIÓN

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edge<sup>®</sup> Conductivity/TDS/Salinity is packed with many cutting-edge features to ensure accuracy and usability.

### Digital EC Electrode

edge<sup>®</sup> EC electrode is highly advanced, featuring a built-in microchip that stores calibration information that is automatically retrieved by edge<sup>®</sup> once the electrode is plugged in. Information stored in the electrode includes model number, serial number and calibration information including the standards used and the date and time the last calibration was performed.

### Four Ring Probe

The edge<sup>®</sup> EC/TDS/Salinity meter is supplied with the HI763100 four ring platinum conductivity probe that has a built-in temperature sensor for automatic temperature compensated measurements. The four ring technology allows for a wide range of measurement with a single probe as compared to amperometric two pole probes that have a limited range and can suffer from polarization effects. The HI763100 probe has a glass and PVDF body with a PEI (polyetherimide) sleeve. Both materials have excellent resistance against many aggressive chemicals.

### 3.5 mm Probe Input

Plugging an electrode in has never been simpler; no alignments, no broken pins, just connect the 3.5 mm plug and get started.

edge<sup>®</sup> is incredibly versatile. It can be used in a variety of ways and in a variety of environments without taking up the space of a traditional benchtop meter.

### Wall Mount

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. edge's zero footprint design saves you valuable benchtop space.

### Cradle and Electrode Holder

edge<sup>®</sup> is equipped with a benchtop cradle featuring an adjustable swivel electrode holder to charge and hold the meter securely in place at the optimum viewing angle.

edge<sup>®</sup> is incredibly thin and weighs only 8.8 oz., has an 8-hour battery life, and dual USB inputs.

### Two USB Ports

edge<sup>®</sup> includes one standard USB for exporting data with a flash drive and a second micro-USB port for you to connect to a computer for file export and for charging your edge when the cradle is not available.

## Data Logging

edge<sup>®</sup> allows you to store up to 1000 log records of data. Data sets include readings, GLP data, date and time.

## Two Operating Modes

edge<sup>®</sup> offers both Basic and Standard Modes. In Basic Mode, the edge as an EC meter reduces features to simplify operation. In Basic Mode, the meter will only allow for automatic temperature compensation, auto ranging of readings, and automatic cell factor correction while calibrating. The temperature correction coefficient is fixed to 1.9% / °C and interval logging is not available. In Standard Mode, the user has options to change these settings.

## Video



## CARACTERÍSTICAS

Intervalo CE	0.00 a 29.99 S/cm, de 30.0 a 299.9 S/cm, de 300 a 2.999 microsiemens/cm, 3.00 a 29.99 mS/cm, 30.0 a 200.0 mS/cm, hasta 500.0 mS/cm (CE absoluta) **
Resolución CE	0.01 S/cm, 0.1 S/cm, 1 S/cm, 0.01 mS/cm, 0.1 mS/cm

<b>Exactitud CE (@ 25°C / 77°F)</b>	± 1% de lectura (± 0.05 S/cm o 1 dígito, el que sea mayor)
<b>Calibración de CE</b>	1 punto de calibración (0.00 S/cm en el aire), calibración de pendiente 1 punto, 84 S/cm, 1413 microsiemens/cm, 5.00 mS/cm, 12.88 mS/cm, 80.0 mS/cm y 111.8 mS/cm

#### Especificaciones TDS

<b>Intervalo de TDS</b>	0.00 a 14.99 ppm (mg/L), 15.0 a 149.9 ppm (mg/L), 150 a 1499 ppm (mg/L), 1.50-14.99 g/L, 15.0 a 100.0 g/L, hasta 400.0 g/L (TDS absoluto) **
<b>Resolución TDS</b>	0.01 ppm, 0.1 ppm, 1 ppm, 0.01 g/L, 0.1 g/L
<b>TDS Precisión (@ 25°C / 77°F)</b>	± 1% de lectura (± 0.03 ppm o 1 dígito, el que sea mayor)
<b>TDS</b>	a través de la calibración CE
<b>Factor de conversión TDS</b>	0.40 a la 0.80 (valor por defecto es 0.50)

#### Especificaciones de salinidad

<b>Intervalo de salinidad</b>	0.0% de NaCl a 400.0, 2.00 42.00 PSU, 0.0 a 80.0 g/L *
<b>Resolución de salinidad</b>	0.1% de NaCl, 0.01 PSU, 0.01 g/L
<b>Exactitud de salinidad(@ 25°C / 77°F)</b>	± 1% de la lectura

#### Especificaciones de temperatura

<b>Intervalo de temperatura</b>	-20.0-120.0 °C, -4.0-248.0 ° F
<b>Resolución de temperatura</b>	0.1 ° C, 0.1 ° F
<b>Exactitud de temperatura</b>	± 0.5 ° C, ± 0.9 ° F
<b>°C / °F</b>	Sí

#### Especificaciones adicionales

<b>CE/TDS/ salinidad, compensación de temperatura</b>	-5 Automática a 100° C (212° F a 23) sin TC - se puede seleccionar para medir la conductividad absoluta.
<b>Coefficiente de temperatura de conductividad</b>	0.00 a 6.00% / °C
<b>GLP</b>	Sí
<b>Registros</b>	Hasta 1000 registros (400 para el modo básico) organizados en: bajo demanda manual (200 registros como máximo), bajo demanda manual de estabilidad * (máximo 200 registros), registro a intervalos † (máximo 600 muestras; 100 lotes)
<b>Conectividad</b>	1 puerto micro USB para cargar y conectividad de PC, 1 puerto USB para almacenamiento

<b>Condiciones ambientales</b>	0 a 50 °C (32 a 122 °F), HR máx. 95% sin condensación
<b>Tipo de batería/duración</b>	Batería recargable integrada con hasta 8 horas de uso continuo
<b>Alimentación eléctrica</b>	Adaptador de 5 VCD (incluido)
<b>Dimensiones</b>	202 x 140 x 12.7 mm (8 "x 5.5" x 0.5 ")
<b>Peso</b>	250 g (8.82 oz)
<b>Información para ordenar</b>	edge®EC HI2003 incluye: HI763100 Sonda de conductividad, 4 sobres de estándar de conductividad de 1413 µS/cm, 2 sobres de estándar de conductividad de 5000 µS/cm, 2 sobres de estándar de conductividad de 12880 µS/cm, 2 sobres solución de limpieza de uso general, soporte para electrodo, soporte para montaje en pared, cable USB, adaptador de alimentación de 5 VCD, certificado de calidad y manual de instrucciones.
<b>Notas</b>	* No disponible en modo básico ** con función de compensación de temperatura desactivada