

Digital electrodes

edge®EC 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 EC by an easy to plug-in 3.5 mm connector.

Conductivity probe

HI763100 (included)

Conductivity probe with temperature sensor

Recommended for general purpose



Specifications	HI2003 edge EC	
EC	Range	0.00 to 29.99 $\mu\text{S}/\text{cm}$; 30.0 to 299.9 $\mu\text{S}/\text{cm}$; 300 to 2999 $\mu\text{S}/\text{cm}$; 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 $\mu\text{S}/\text{cm}$; 0.1 $\mu\text{S}/\text{cm}$; 1 $\mu\text{S}/\text{cm}$; 0.01 mS/cm ; 0.1 mS/cm
	Accuracy (@25°C/77°F)	$\pm 1\%$ of reading ($\pm 0.05 \mu\text{S}/\text{cm}$ or 1 digit, whichever is greater)
	Calibration	single cell factor calibration; six standards available: 84 $\mu\text{S}/\text{cm}$, 1413 $\mu\text{S}/\text{cm}$, 5.00 mS/cm , 12.88 mS/cm , 80.0 mS/cm , 111.8 mS/cm , one point offset: 0.00 $\mu\text{S}/\text{cm}$
	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)	$\pm 1\%$ of reading ($\pm 0.03 \text{ ppm}$ 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)	$\pm 1\%$ of reading
	Calibration	PSU and g/L through EC calibration; % NaCl – one-point with HI7037 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	$\pm 0.5^\circ\text{C}$; $\pm 0.9^\circ\text{F}$
Additional Specifications	Probe	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)
	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.)
Ordering Information	<p>HI2003-01 (115V) and HI2003-02 (230V) edge EC includes: HI763100 Conductivity probe, 1413 $\mu\text{S}/\text{cm}$ conductivity standard sachets (4), 12880 $\mu\text{S}/\text{cm}$ conductivity standard sachets (2), 5000 $\mu\text{S}/\text{cm}$ conductivity standard sachets (2), electrode rinse solution sachets (2), benchtop docking station with electrode holder, wall-mount cradle, USB cable, 5 VDC power adapter, quality certificates and instruction manual.</p> <p>HI2003-03 includes the above without probe.</p>	

* temperature limits will be reduced to actual probe limits

** with temperature compensation function disabled

[†] standard mode only