

## 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 $\text{mS}/\text{cm}$ ; 30.0 to 200.0 $\text{mS}/\text{cm}$ ; up to 500.0 $\text{mS}/\text{cm}$ 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 $\text{mS}/\text{cm}$ ; 0.1 $\text{mS}/\text{cm}$
	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 $\text{mS}/\text{cm}$ , 12.88 $\text{mS}/\text{cm}$ , 80.0 $\text{mS}/\text{cm}$ , 118.8 $\text{mS}/\text{cm}$ , 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 $\text{mg}/\text{L}$ (ppm); 15.0 to 149.9 $\text{mg}/\text{L}$ (ppm); 150 to 1499 $\text{mg}/\text{L}$ (ppm); 1.50 to 14.99 $\text{g}/\text{L}$ ; 15.0 to 100.0 $\text{g}/\text{L}$ ; up to 400.0 $\text{g}/\text{L}$ absolute TDS using 0.80 conversion factor**
	Resolution	0.01 $\text{mg}/\text{L}$ (ppm); 0.1 $\text{mg}/\text{L}$ (ppm); 1 (ppm); 0.01 $\text{g}/\text{L}$ ; 0.1 $\text{g}/\text{L}$
	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 $\text{g}/\text{L}$
	Resolution	0.1 ‰ NaCl; 0.01 PSU; 0.01 $\text{g}/\text{L}$
	Accuracy (@25°C/77°F)	$\pm 1\%$ of reading
	Calibration	PSU and $\text{g}/\text{L}$ 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	<b>HI2003-01</b> (115V) and <b>HI2003-02</b> (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.	

\* temperature limits will be reduced to actual probe limits

\*\* with temperature compensation function disabled

† standard mode only