

EC/TDS/NaCl/°C Meters

- **Autoranging, manual ranging and range lock**
- **Four ring probe design**
- **Automatic, manual and no Temperature Compensation**
- **Auto endpoint**
Automatically freezes stable readings on the LCD display
- **GLP features**
- **BEPS**
(Battery Error Prevention System) alerts the user in the event that low battery power could adversely affect readings
- **On-screen user guides**
- **Backlit display**
- **Logging of up to 500 records**
(HI 98360)
- **% Battery displayed on startup**
- **USB port for PC compatibility**
(HI 98360)

HI 9835 and HI 98360 are handheld conductivity/TDS/salinity/temperature meters. Users are provided with a series of diagnostic features and messages on the LCD which guide the user through calibration, operation and troubleshooting.

Conductivity and TDS measurement parameters are selectable such as: cell constant range from 0.500 to 1.700, temperature coefficient from 0.00 to 6.00%/°C, temperature reference from 20 to 25°C and a selectable TDS factor of 0.40 to 0.80.

Both instruments utilize the four ring HI 76309/1.5 conductivity probe with internal temperature sensor. The four ring design offers accurate readings over all the conductivity range with immunity to polarization and falling that occurs on long term use of amperometric probes.

The autoranging feature of the EC and TDS modes automatically sets the meter to the scale with the highest possible resolution. The auto endpoint feature automatically freezes the display once a stable reading is reached.

The HI 98360 includes all of the features of the HI 9835 while adding data logging (up to 500 records) and a USB port for data transfer to a computer.



HI 76309/1.5 Conductivity Probe

The HI 76309/1.5 conductivity and temperature probe features a PVC body with a stainless steel four ring design. This design offers accurate readings over all the conductivity range.

- Four ring design**

Immune to polarization and fouling for longer periods of time

- Extended cable**

This probe features a 1.5 m (4.9') cable

SPECIFICATIONS	HI 9835	HI 98360
Range	EC	0.00 to 29.99 $\mu\text{S/cm}$; 30.0 to 299.9 $\mu\text{S/cm}$; 300 to 2999 $\mu\text{S/cm}$; 3.00 to 29.99 mS/cm ; 30.0 to 200.0 mS/cm ; up to 500.0 mS/cm (actual EC)*
	TDS	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 (ppt); 15.0 to 100.0 g/L (ppt); up to 400.0 g/L (ppt) (actual TDS)* with 0.80 conversion factor
	NaCl	0.0 to 400.0%
	Temperature	-20.0 to 120.0 $^{\circ}\text{C}$ (-4.0 to 248.0 $^{\circ}\text{F}$)**
Resolution	EC	0.01 $\mu\text{S/cm}$; 0.1 $\mu\text{S/cm}$; 1 $\mu\text{S/cm}$; 0.01 mS/cm ; 0.1 mS/cm
	TDS	0.01 mg/L (ppm); 0.1 mg/L (ppm); 1 mg/L (ppm); 0.01 g/L (ppt); 0.1 g/L (ppt)
	NaCl	0.1%
	Temperature	0.1 $^{\circ}\text{C}$
Accuracy	EC	$\pm 1\%$ of reading ($\pm 0.05 \mu\text{S/cm}$ or 1 digit) $\pm 0.5\%$ of reading
	TDS	$\pm 1\%$ of reading ($\pm 0.03 \text{mg/L}$ (ppm) or 1 digit, whichever greater) $\pm 0.5\%$ of reading
	NaCl	$\pm 1\%$ of reading $\pm 0.5\%$ of reading
	Temperature	$\pm 0.2^{\circ}\text{C}$ (excluding probe error)
Calibration	EC	automatic, one point with six memorized values (84, 1413, 5000, 12880, 80000, 111800 $\mu\text{S/cm}$)
	NaCl	one point with HI 7037 calibration solution
	Temperature	two point, at 0 and 50 $^{\circ}\text{C}$ (32 and 122 $^{\circ}\text{F}$)
Temperature Compensation	automatic or manual from -20.0 to 120.0 $^{\circ}\text{C}$ (-4.0 to 248.0 $^{\circ}\text{F}$) (can be disabled for measuring conductivity)	
Temperature Coefficient	selectable from 0.00 to 6.00%/ $^{\circ}\text{C}$ (EC and TDS only); default value is 1.90%/ $^{\circ}\text{C}$	
Reference Temperature	20 $^{\circ}\text{C}$ or 25 $^{\circ}\text{C}$	
TDS Conversion Factor	selectable from 0.40 to 0.80 (default value is 0.50)	
Data Logging	-	log on demand, up to 500 samples
PC Interface	-	opto-isolated USB
Probe (included)	HI 76309 four ring conductivity probe with internal temperature sensor, DIN connector and 1 m (3.3') cable	HI 76309/1.5 four ring conductivity probe with internal temperature sensor, DIN connector and 1.5 m (4.9') cable
Battery Type / Life	1.5V AAA batteries (3) / approximately 200 hours of continuous use without backlight (50 hours with backlight on); auto-off after 5, 10, 20 and 60 minutes (can be disabled)	
Environment	0 to 50 $^{\circ}\text{C}$ (32 to 122 $^{\circ}\text{F}$); RH max 95%	
Dimensions	185 x 72 x 36 mm (7.3 x 2.8 x 1.4")	
Weight	300 g (10.6 oz)	

* with temperature compensation function disabled ** using the proper probe



ORDERING INFORMATION

HI 9835 is supplied with HI 76309 conductivity probe, batteries, instructions and rugged carrying case.

HI 98360 is supplied with HI 76309/1.5 conductivity probe, batteries, instructions and rugged carrying case.

PROBES

HI 76309 Four ring conductivity probe with internal temperature sensor, DIN connector and 1 m (3.3') cable

HI 76309/1.5 Four ring conductivity probe with internal temperature sensor, DIN connector and 1.5 m (4.9') cable

HI 76309/10 Four ring conductivity probe with internal temperature sensor, DIN connector and 10 m (32.8') cable

HI 76309/20 Four ring conductivity probe with internal temperature sensor, DIN connector and 20 m (65.6') cable

HI 76309/50 Four ring conductivity probe with internal temperature sensor, DIN connector and 50 m (164') cable.

SOLUTIONS

HI 7030L 12880 $\mu\text{S/cm}$ calibration solution, 500 mL

HI 7031L 1413 $\mu\text{S/cm}$ calibration solution, 500 mL

HI 7033L 84 $\mu\text{S/cm}$ calibration solution, 500 mL

HI 7034L 80000 $\mu\text{S/cm}$ calibration solution, 500 mL

HI 7035L 111800 $\mu\text{S/cm}$ calibration solution, 500 mL

HI 7039L 5000 $\mu\text{S/cm}$ calibration solution, 500 mL

HI 7037L 100% NaCl seawater standard solution, 500 mL

HI 7061L Electrode cleaning solution, 500 mL

ACCESSORIES

HI 92000 Windows® compatible software

HI 920014 Mini USB connection cable

For a complete list of Solutions, see the end of this section.