

# Multiparameter EC/TDS/°C/NaCl

part no: HI 9835

Laboratory

## Rugged and highly versatile

The HI 9835 combines the four important parameters needed to measure conductivity in one high precision multiparameter instrument.

Designed to allow simultaneous sampling of electro conductivity (EC), total dissolved solids (TDS) sodium chloride (NaCl) and temperature, this is a great portable meter for measuring conductivity in testing or pressured environments.



## Added benefits

- Choose between automatic and manual temperature compensations to match operating requirements
- For greater consistency and reproducibility, select from a range of TDS factors from 0.40 to 0.80 and a range of temperature coefficients from 0.00 to 6.00%
- Meter can be connected to a 12 Vdc power supply (optional)

conductivity • conductivity

portable

## Designed for laboratory and field applications

Probe connector located for ease and efficiency

Battery location designed for fast, easy replacement

Large user friendly LCD display provides clear tutorial messaging to guide the user through calibration and setup

Waterproofed, rugged ergonomic casing – designed to survive harsh conditions of field use



4-ring probe design promotes greater stability over a broader measuring range and is equipped with an embedded temperature sensor

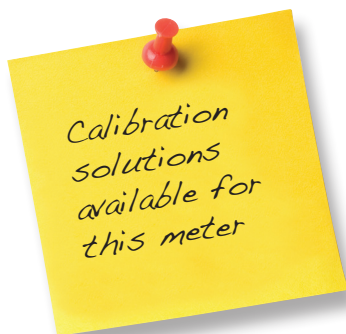
conductivity

**Four ring probe design for added stability over broader measuring range**

The HI 76309 conductivity and temperature probe features a PVC body with a stainless steel four ring design to deliver high accuracy over a broader conductivity range.



The four ring construction is designed to ensure the probe is immune to polarisation and fouling for longer periods of time. Combined with a one meter cable, this probe makes the meter particularly popular for use in a variety of applications both in the laboratory and out in the field.

**Supplied with**

The HI 9835 meter is supplied as standard with:

- HI 76309 probe with internal temperature sensor on 1m cable
- Batteries
- Instructions
- Rugged carrying case

**Specifications**

Product Code	HI 9835	
Range	EC	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 $\text{mS}/\text{cm}$ (actual EC)
	TDS	0.00 to 14.99 ppm (mg/L); 15.0 to 149.9 ppm (mg/L); 150 to 1499 ppm (mg/L); 1.50 to 14.99 g/L; 15.0 to 100.0 g/L up to 400.0 g/L (actual TDS)
	NaCl	0.0 to 400.0%
	Temperature	0.0 to 60.0°C
Resolution	EC	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 $\text{mS}/\text{cm}$
	TDS	0.01 ppm (mg/L); 0.1 ppm (mg/L); 1 ppm (mg/L); 0.01 g/L; 0.1 g/L
	NaCl	0.1%
	Temperature	0.1°C
Accuracy	EC	$\pm 1\% \pm (0.05 \mu\text{S}/\text{cm} \text{ or } 1 \text{ digit})$
	TDS	$\pm 1\% \pm (0.03 \text{ ppm or } 1 \text{ digit})$
	NaCl	$\pm 1\%$
	Temp	$\pm 0.4^\circ\text{C}$
Calibration	EC	automatic, 1 point, with 6 memorized values (84, 1413, 5000, 12880, 80000 and 111800 $\mu\text{S}/\text{cm}$ )
	NaCl	1 point, with HI 7037 calibration solution (not included)
	Temperature	2 point, at 0 and 50°C
Temperature Compensation	automatic or manual, 0 to 60°C ;can be disable for measuring actual EC and TDS	
Temperature Coefficient	adjustable from 0.00 to 6.00%/°C (EC and TDS only)	
TDS Conversion Factor	adjustable from 0.40 to 0.80	
Probe	HI-76309, 4-ring probe, K=1 nominal, built-in temperature sensor (included)	
Power Supply	4 x 1.5V AA batteries (included) or 12 Vdc input; auto-off after 5 mins of non-use (can be disabled)	
Environment	0 to 50°C (; RH max 100%	
Dimensions	196 x 80 x 60 mm	
Weight	500 g	

# Multiparameter EC/TDS°C/NaCl

part no: HI 98360

part no: HI 9835

Water

## Rugged all in one conductivity meter with datalogging

Rugged and highly versatile, these two high precision instruments each combine the four important parameters needed to measure conductivity in one high precision multiparameter instrument.

Designed to allow simultaneous sampling of electro conductivity (EC), total dissolved solids (TDS) salinity (NaCl) and temperature, these portable meters are ideal for measuring conductivity in testing or pressured environments.

With a rugged waterproof casing, they are ideal for use out in the field as well as internal laboratory testing.



## Four ring probe design for added stability over broader measuring range

The HI 76309 conductivity and temperature probe features a PVC body with a stainless steel four ring design to deliver high accuracy over a broader conductivity range.

The four ring construction is designed to ensure the probe is immune to polarisation and fouling for longer periods of time.

Combined with either a 1m or 1.5m cable, this probe makes the meter particularly popular for use out in the field.

conductivity

conductivity • conductivity

portable



rugged  
waterproof

Waterproofed, rugged ergonomic casing – designed to survive harsh conditions of field use

Probe connector located on top of instrument for ease and efficiency

Data logging up to 500 records with USB port featured as standard with HI 98360 model

### Large backlit LCD display

- Clear tutorial messaging guides the user through calibration, operation and setup
- Battery error prevention system alerts user if power is low
- % battery displayed on start up

### Rubberised keyboard with clearly marked buttons for intuitive use

- Auto range of EC and TDS modes automatically set meter to scale with highest possible resolution
- Auto end point automatically freezes the display once a stable reading is reached

### Selectable conductivity and TDS measurement

- 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
- Selectable TDS factor of 0.40 to 0.80



HI 98360 portable conductivity meter with datalogging

### 4-ring probe design

- Promotes greater stability over a broader measuring range
- Equipped with an embedded temperature sensor
- Immunity to polarisation and falling



**Added benefits**

- Data logging up to 500 records with USB port for data transfer included with HI 98360
- Choose between automatic and manual temperature compensations to match operating requirements
- Meter can be connected to a 12 Vdc power supply (optional)



**HI 9835 is  
ideal for  
testing  
in tough  
conditions**



Water

**Supplied with****HI 9835**

- HI 76309 conductivity probe with internal temperature sensor on 1m cable
- Batteries
- Instructions
- Rugged carrying case

**HI 98360**

- HI 76309/1.5 conductivity probe with internal temperature sensor on 1.5m cable
- Batteries
- Instructions
- Rugged carrying case

**Specifications**

Product Code		HI-98360	HI-9835
Range	EC	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 $\text{mS}/\text{cm}$ (actual EC)	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 $\text{mS}/\text{cm}$ (actual EC)
	TDS	0.00 to 14.99 ppm (mg/L); 15.0 to 149.9 ppm (mg/L); 150 to 1499 ppm (mg/L); 1.50 to 14.99 g/L; 15.0 to 100.0 g/L up to 400.0 g/L (actual TDS)	0.00 to 14.99 ppm (mg/L); 15.0 to 149.9 ppm (mg/L); 150 to 1499 ppm (mg/L); 1.50 to 14.99 g/L; 15.0 to 100.0 g/L up to 400.0 g/L (actual TDS)
	NaCl	0.0 to 400.0%	0.0 to 400.0%
	Temperature	9.9 to 120.0°C	0.0 to 60.0°C
Resolution	EC	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 $\text{mS}/\text{cm}$	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 $\text{mS}/\text{cm}$
	TDS	0.01 ppm (mg/L); 0.1 ppm (mg/L); 1 ppm (mg/L); 0.01 g/L; 0.1 g/L	0.01 ppm (mg/L); 0.1 ppm (mg/L); 1 ppm (mg/L); 0.01 g/L; 0.1 g/L
	NaCl	0.1%	0.1%
	Temperature	0.1°C	0.1°C
Accuracy	EC	$\pm 0.5\%$ of reading	$\pm 1\% \pm (0.05 \mu\text{S}/\text{cm}$ or 1 digit)
	TDS	$\pm 0.5\%$ of reading	$\pm 1\% \pm (0.03 \text{ ppm}$ or 1 digit)
	NaCl	$\pm 0.5\%$ of reading	$\pm 1\%$
	Temperature	$\pm 0.4^\circ\text{C}$	$\pm 0.4^\circ\text{C}$
Calibration	EC	automatic, 1 point, with 6 memorized values (84, 1413, 5000, 12880, 80000 and 111800 $\mu\text{S}/\text{cm}$ )	automatic, 1 point, with 6 memorized values (84, 1413, 5000, 12880, 80000 and 111800 $\mu\text{S}/\text{cm}$ )
	NaCl	1 point, with HI 7037 calibration solution (not included)	1 point, with HI 7037 calibration solution (not included)
	Temperature	2 point, at 0 and 50°C	2 point, at 0 and 50°C
Temperature Compensation		automatic or manual, 0 to 60°C; can be disable for measuring actual EC and TDS	automatic or manual, 0 to 60°C; can be disable for measuring actual EC and TDS
Temperature Coefficient		adjustable from 0.00 to 6.00%/°C (EC and TDS only)	adjustable from 0.00 to 6.00%/°C (EC and TDS only)
TDS Conversion Factor		adjustable from 0.40 to 0.80	adjustable from 0.40 to 0.80
Data Logging		up to 250 samples	
Probe		HI-76309/1.5, with 1.5 m (4.9') cable (included)	HI 76309, 4-ring probe, K=1 nominal, built-in temperature sensor (included)
Power Supply		4 x 1.5V AA batteries (included) or 12 Vdc input; auto-off after 5 mins of non-use (can be disabled)	4 x 1.5V AA batteries (included) or 12 Vdc input; auto-off after 5 mins of non-use (can be disabled)
Environment		0 to 50°C; RH max 100%	0 to 50°C; RH max 100%
Dimensions		196 x 80 x 60 mm	196 x 80 x 60 mm
Weight		500 g	500 g

conductivity





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The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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