

# Portable pH/EC/TDS and temperature

part no: HI 991300

Laboratory

Measuring pH, conductivity, total dissolved solids and temperature in one slim lightweight casing and with one single probe - the HI 991300 is an ideal portable pH tester.

## Supplied with

- HI1288 multiparameter probe
- Starter kit of pH, calibration and electrode cleaning solution sachets
- Batteries
- Instructions



pH • pH • pH • pH • pH

## Ideal portable pH

- **Multi level LCD display**
  - Display gives simultaneous measurement with temperature in either °C or °F
  - On screen tutorial messages for calibration & set up
  - % battery displayed on start up
- **Automatic temperature compensation**
- **Slimline waterproof casing**
- **Simple 2 button operation**
  - HOLD button freezes readings on display for manual recording
  - Select the range of calibration buffers and temperature scale required
- **Battery error prevention system (BEPS) helps to ensure instrument is in optimum working order**



Measures pH, EC/TDS and temperature with single multiparameter probe

## HI 1288 multiparameter probe

Supplied as standard, the HI 1288 multiparameter probe includes pH, EC/TDS and temperature measurement in one convenient, rugged probe.

### Key features:

- Integrated with a solid-state pre-amplifier built into the handle to ensure against interference from transient electrical noise
- Amperometric conductivity probe
- Built-in temperature sensor
- Easy clean and keep clean design
- For spares, quote part number HI 1288



pH

## Accessories and Solutions for the HI 991300 meter

Protective rubber holsters are a popular option for the HI 991300 meter. Available in either Blue or Orange rubber they encase the meter in a flexible neoprene shell and offer protection against accidental damage resulting from drops and spills. When used in the field the rubber holsters make the meters easy to hold with wet hands.



**HI 710023**

Holster in Orange



**HI 710024**

Holster in Blue



**HI 1288**

Spare/replacement multiparameter probe on 1m cable

## Specifications

Product Code		HI 991300
Range	pH	0.00 to 14.00 pH
	EC	0 to 3999 $\mu\text{S}/\text{cm}$
	TDS	0 to 2000 ppm (mg/L)
	Temperature	0.0 to 60.0°C
Resolution	pH	0.01 pH
	EC	1 $\mu\text{S}/\text{cm}$
	TDS	1 ppm
	Temperature	0.1°C
Accuracy	pH	$\pm 0.01$ pH
	EC	$\pm 2\%$ F.S.
	TDS	$\pm 2\%$ F.S.
	Temperature	$\pm 0.5^\circ\text{C}$
TDS Conversion Factor		selectable 0.45 to 1.00 with 0.01 increments (default 0.50)
pH Calibration		automatic at 1 or 2 points with 2 sets of memorized standard (pH 4.01/7.01/10.01 or 4.01/6.86/9.18)
EC/TDS Calibration		automatic, 1 point at 1382 ppm (CONV 0.5) at 1500 ppm (CONV 0.7)
Temperature Compensation	pH	Automatic
	EC/TDS	Automatic with selectable B from 0.0 to 2.4%/°C with 0.1 increments
Probe		HI 1288, pH/EC/TDS/T, DIN connector, 1 m (3.3') cable (included)
Power Supply		4 x 1.5V AAA / approx. 500 hours of continuous use
Environment		0 to 50°C ; RH max 100%
Dimensions / Weight		150 x 80 x 36 mm / 210 g

## Calibration solutions are available for pH, conductivity and TDS



**HI 7004L**

500ml bottle of pH4 buffer solution



**HI 7007L**

500ml bottle of pH7 buffer solution



**HI 7010L**

500ml bottle of pH10 buffer solution



**HI 7030L**

500ml bottle of 12880uS/cm conductivity solution



**HI 7031L**

500ml bottle of 1413uS/cm conductivity solution



**HI 7032L**

500ml bottle of 1382ppm (mg/L) TDS solution



**HI 70442L**

500ml bottle of 1500 ppm (mg/L) TDS solution



**HI 70300L**

500ml bottle of electrode storage solution



**HI 7061L**

500ml bottle of electrode cleaning solution

# Portable EC TDS pH & °C low & high range models

part no: HI 991301 (High HR)

part no: HI 991300 (Low LR)

Water

## Designed for optimum consistency and reproducibility

The HI 991301 HR combination meter for conductivity offers a great range of user selectable features to deliver greater consistency and reproducibility.

- Different TDS factors ranging from 0.45 to 1.00
- Temperature coefficients (β) ranging from 0.0 to 2.4%



**HI 991300**

HI 991300 Low Range model

conductivity • conductivity

## High precision with consistent deliverability

The HI 991301 and HI 991300 high and low range instruments have both been designed to offer pH, conductivity, total dissolved solids and temperature measurements in a slim, lightweight portable unit.

For optimum precision testing from purified water to measurement in brine, simply select the meter with the conductivity range that will work best with your application.

### Multi level LCD display

- Displays current measurement simultaneously with current temperature
- Clear tutorial messages on screen guide the user intuitively through the range of calibration buffers and temperature scale options

### Automatic one or two point calibration

Simple two button operation is easy to use single-handedly – perfect for use out in the field

- HOLD button freezes readings on display for manual recording

### Slimline waterproof housing

- Rated for IP67 conditions
- Easy to clean and keep clean

### Automatic temperature compensation

Battery error prevention system alerts user of low battery which could adversely affect readings



Illustrated: HI 991301  
High Range test EC,  
pH, TDS and °C in one  
slim, rugged unit

### Multi-parameter probe HI 1288:

- Includes pH, EC/TDS and temperature in one convenient rugged handle
- Solid state amplifier integrated into the probe to ensure against interference from transient electrical noise

conductivity



## Accessories designed for tough conditions

Both the HI 1288 multiparameter probe and protective rubber boot are designed for tough conditions – adding great value to both high and low range models.

### HI 1288 multiparameter probe

- Amperometric conductivity probe with DIN connector and 1.2m cable
- Built in temperature sensor
- Sensor has PVC body with 'keep clean' design



### Protective rubber boot

Available in either orange or blue, these rubber boots offer good shock protection for use out in the field.



### Product code:

Orange: HI 710023

Blue: HI 710024

## Supplied with HI 991301 & HI 991300

- HI 1288 multi-parameter probe
- Starter pack of buffer, calibration and cleaning solutions
- Batteries
- Instructions



## Specifications

Product Code		HI 991300	HI 991301
Range	pH	0.00 to 14.00 pH	
	EC	0 to 3999 µS/cm	0.00 to 20.00 mS/cm
	TDS	0 to 2000 ppm (mg/L)	0.00 to 10.00 ppt (g/L)
	Temperature	0.0 to 60.0°C	
Resolution	pH	0.01 pH	
	EC	1 µS/cm	0.01 mS/cm
	TDS	1 ppm	0.01 ppt
	Temperature	0.1°C	
Accuracy	pH	±0.01 pH	
	EC	±2% F.S.	
	TDS	±2% F.S.	
	Temperature	±0.5°C	
TDS Conversion Factor		selectable 0.45 to 1.00 with 0.01 increments (default 0.50)	
pH Calibration		automatic at 1 or 2 points with 2 sets of memorized standard (pH 4.01/7.01/10.01 or 4.01/6.86/9.18)	
EC/TDS Calibration		automatic, 1 point at 1382 ppm (CONV 0.5) at 1500 ppm (CONV 0.7)	
Temperature Compensation	pH	Automatic	
	EC/TDS	Automatic with selectable β from 0.0 to 2.4%/°C with 0.1 increments	
Probe		HI 1288, pH/EC/TDS/T, DIN connector, 1 m (3.3') cable (included)	
Power Supply		4 x 1.5V AAA / approx. 500 hours of continuous use	
Environment		0 to 50°C ; RH max 100%	
Dimensions		150 x 80 x 36 mm	
Weight		210 g	





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**Pricing on any accessories shown can be found by keying the part number into the search box on our website.**

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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