



HI 9811-5 and HI 9812-5  
**pH/EC/TDS/°C PORTABLE METERS**

 **HANNA**  
instruments  
With Great Products, Come Great Prices



## HI 9811-5 and HI 9812-5

# pH/EC/TDS/°C PORTABLE METERS

HI 9811-5 and HI 9812-5 are pH/EC/TDS waterproof meters designed for simple and accurate in taking pH,  $\mu\text{S}/\text{cm}$ , ppm (mg/L) and temperature measurements. Both HI 9811-5 and HI 9812-5 are ideal for hydroponics, greenhouses, farming and ground water applications.

Conductivity measurements are automatically compensated for temperature changes with a built-in temperature sensor. The temperature coefficient is  $\pm 2\%/^{\circ}\text{C}$ .

The specially engineered HI 1285-5 pH/EC/TDS and temperature probe uses a fiber junction and gel electrolyte which provide a fast response and resist contamination. This combination makes the HI 1285-5 particularly suitable for use in fertilizer solutions.

No probe changes are required when switching your measured parameter between pH, conductivity and TDS. These multiparameter meters reduce the number of instruments required for water quality analysis.

## FEATURES

- **Water resistant**
- **On-screen user guides**  
Save time with on-screen calibration guides
- **BEPS**  
BEPS (Battery Error Protection System) alerts the user in the event that low battery power could adversely affect readings
- **Switch parameters at the touch of a button**
- **Automatic Temperature Compensation**  
For pH and conductivity
- **Simple calibration**  
Dials located on the front panel makes calibration quick and easy even for non-technical users
- **Battery % displayed on screen**
- **Fast response probe included**



**B.E.P.S. ±**  
Battery Error  
Prevention System

**2** YEAR  
WARRANTY

ISO 9001  
CERTIFIED  
COMPANY

**WE DESIGN, MANUFACTURE, SUPPLY AND SUPPORT  
ALL OF OUR PRODUCTS.**

## **THAT'S 360° VALUE**

Over the past 30 years, **HANNA** has never failed to design fresh and innovative products and the new HI 9811-5 and HI 9812-5 are no exception. We are excited to introduce such high accuracy and ease of use in a compact, modern design that fits right in your hand.

**HANNA** is the largest family-owned manufacturer of analytical instrumentation in the world. The HI 9811-5 and HI 9812-5 are manufactured in our European state-of-the-art ISO 9001:2000 production facility and is CE compliant to EN 61326-1 and EN 61010-1 standards.

When you buy a **HANNA** product, you're not only buying the best value for your money, but you're also adding the benefit of **HANNA**'s unsurpassed customer service and post-sale technical support.

## **pH/EC/TDS Electrode & Starter Solutions Included!**



Shown with HI 710008 protective boot (optional)



### **HI 1285-5 PROBE**

The specially engineered HI 1285-5 pH/EC/TDS and temperature probe utilizes a fiber junction and gel electrolyte which provide a fast response and reduced contamination. This combination makes the HI 1285-5 particularly suitable to be used in fertilizer solutions.

These probes are interchangeable with other pH meters that use the same connector.

- **Specialized Probe**

The 1285-5 is designed to withstand harsh environments such as fertilizer solutions.

SPECIFICATIONS		HI 9811-5	HI 9812-5
Range	pH	0.0 to 14.0 pH	
	EC	0 to 6000 µS/cm	0 to 1990 µS/cm
	TDS	0 to 3000 ppm (mg/L)	0 to 1990 ppm (mg/L)
	Temperature	0.0 to 70.0°C	0 to 60°C
Resolution	pH	0.1 pH	
	EC	10 µS/cm	
	TDS	10 ppm (mg/L)	
	Temperature	0°C	
Accuracy (@20°C/68°F)	pH	±0.1 pH	
	EC	±2% F.S.	
	TDS	±2% F.S.	
	Temperature	±1°C	
TDS Conversion Factor		0.5 ppm (mg/L) = 1 µS/cm	
pH Calibration		manual, 1 point through offset trimmer	
EC/TDS Calibration		manual, 1 point through slope trimmer	
EC/TDS Temperature Compensation		automatic from 0 to 50°C (32 to 122°F) with β = 2% /°C	
Probe		HI 1285-5 pH/EC/TDS/T, 1 m cable (included)	
Battery Type / Life		9V / approximately 150 hours of continuous use	
Environment		0 to 50°C (32 to 122°F); RH 100%	
Dimensions / Weight		144.6 x 79.5 x 37 mm (5.7 x 3.1 x 1.5") / 230 g (8.1 oz.)	

## ORDERING INFORMATION

**HI 9811-5** and **HI 9812-5** are supplied with HI 1285-5 pH/EC/TDS/ °C probe, starter set of calibration and cleaning solution sachets, 9 V battery and instructions.

## ELECTRODES

**HI 1285-5** pH/EC/TDS/°C probe, 1 m (3.3') cable

## CONDUCTIVITY & TDS CALIBRATION SOLUTIONS

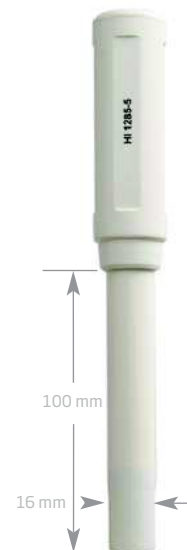
**HI 7031L** 1413 µS/cm solution, 500 mL  
**HI 7032L** 1382 ppm (mg/L) solution, 500 mL

## pH BUFFER SOLUTIONS

**HI 7004L** pH 4.01 buffer solution, 500 mL  
**HI 7006L** pH 6.86 buffer solution, 500 mL  
**HI 7007L** pH 7.01 buffer solution, 500 mL  
**HI 7009L** pH 9.18 buffer solution, 500 mL  
**HI 7010L** pH 10.01 buffer solution, 500 mL  
**HI 70300L** Electrode storage solution, 500 mL  
**HI 7061L** Electrode cleaning solution, 500 mL

## OTHER ACCESSORIES

**HI 710007** Shockproof rubber boot, blue  
**HI 710008** Shockproof rubber boot, orange



SPECIFICATIONS	HI1285-5
Description	Combination probe
Reference	Single, Ag/AgCl
Junction	Cloth
Electrolyte	Gel
Max Pressure	0.1 bar
Range	pH: 0 to 13 / EC T: 0 to 60°C (32 to 140°F)
Tip /Shape	Spheric (dia: 8 mm)
Temperature Sensor	Yes
Amplifier	Yes
Body Material	Polypropylene
Connection/Cable	Multi-pin/ 7-pole; 2 m (6.6')
Recommended Use	Greenhouses, hydroponic environmental monitoring, water treatment, boilers, cooling towers

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