

# PICCOLO & PICCOLO+

## 0.01 pH Accuracy, Replaceable Probe & Temperature Read-Out

**PICCOLO** is a revolutionary pH-meter with a 4-in-1 "Electrode + Amplifier" design. Conventional pH meters are susceptible to the weak high impedance signal which makes the electrode, connector, cable and meter delicate and vulnerable to noise, humidity and dirty environments.

**PICCOLO** has overcome these problems with a pre-amplified electrode delivering a strong signal to the meter. The 4-in-1 interchangeable electrode is inexpensive and rugged and houses the pH sensor, reference system, temperature sensor and the amplifier module.

**Accuracy:** With a resolution and accuracy of  $\pm 0.01$  pH, **PICCOLO** has the same precision as a lab-grade meter at a fraction of the price.

**Easy to Use:** Battery operated and weighing only 100 grams, **PICCOLO** measures pH wherever necessary. Just switch it on, immerse in the solution and read. Dual point calibration is performed easily through trimmers on the meter's casing.

**Replaceable Electrode:** The detachable electrode has sealed electronics against humid and dusty environments.

**Automatic Temperature Compensation:** A temperature sensor housed in the electrode provides ATC from 0 to 70°C (32 to 158°F).

**Temperature Read-Out:** A professional thermometer built inside a pH meter! Accurate temperature read-out directly on LCD (**PICCOLO Plus** only).

**Supplied Complete:** **PICCOLO** comes complete with a 4-in-1 pH electrode, pH 4 and pH 7 buffer solutions, a small calibration screwdriver in a purpose-built, rugged carrying case.

### Three Models to choose from:

**PICCOLO** with a 9 cm (3.5") electrode (**HI 1280**).

**PICCOLO 2** with a 16 cm (6.3") electrode (**HI 1290**).

**PICCOLO Plus** with a 16 cm (6.3") electrode (**HI 1295**) and temperature readout directly on LCD.

### SPECIFICATIONS

	PICCOLO	PICCOLO 2	PICCOLO Plus
RANGE	1.00 to 13.00 pH	1.00 to 13.00 pH	1.00 to 13.00 pH/0.0 to 70.0°C
RESOLUTION	0.01 pH	0.01 pH	0.01 pH/0.1°C
ACCURACY (@20°C/68°F)	$\pm 0.01$ pH	$\pm 0.01$ pH	$\pm 0.01$ pH/ $\pm 1^\circ\text{C}$
TYPICAL EMC DEVIATION	$\pm 0.05$ pH	$\pm 0.30$ pH	$\pm 0.2$ pH/ $\pm 1^\circ\text{C}$
CALIBRATION	Manual 2 points through trimmers		
TEMPERATURE COMPENSATION	Automatic from 0 to 70°C (32 to 158°F)		
ELECTRODE	<b>HI 1280 (included)</b>	<b>HI 1290 (included)</b>	<b>HI 1295 (included)</b>
BATTERY TYPE / LIFE	3 x 1.4V / 100 hours approx. continuous use		
ENVIRONMENT	0 to 50°C (32 to 122°F); RH 95%		
DIMENSIONS	194 x 29 x 15 mm (7.6 x 1.2 x 0.6")	265 x 29 x 15 mm (10.4 x 1.2 x 0.6")	265 x 29 x 15 mm (10.4 x 1.2 x 0.6")
WEIGHT	400 g (14.1 oz.) with carrying case		

### HOW TO ORDER

**HI 98111 (PICCOLO)** with 90 mm (3.5") **HI 1280** pH amplified electrode

**HI 98112 (PICCOLO 2)** with 160 mm (6.3") **HI 1290** pH amplified electrode

**HI 98113 (PICCOLO Plus)** with 160 mm (6.3") **HI 1295** pH amplified electrode

All **PICCOLO** instruments are supplied complete with pH/temperature probe, pH 7.01 and pH 4.01 buffer solutions, small screwdriver, 3 1.4V batteries and instructions in a rugged carrying case.

### ACCESSORIES

**HI 1280** Amplified pH electrode (90 mm/3.5")  
**HI 1290** Amplified pH electrode (160 mm/6.3")  
**HI 1295** Amplified pH electrode (160 mm/6.3")  
**HI 77400P** Cal. kit (pH 4 & 7, 20 mL, 5 pcs each)  
**HI 77700P** Calibration kit (pH 7, 10 x 20 mL)  
**HI 770710P** Cal. kit (pH 7 & 10, 20 mL, 5 pcs each)

**HI 7004M** Buffer solution pH 4.01, 230 mL  
**HI 7007M** Buffer solution pH 7.01, 230 mL  
**HI 7010M** Buffer solution pH 10.01, 230 mL  
**HI 70300M** Storage solution, 230 mL

For a complete range of calibration and maintenance solutions see pages G5, G7, G9 and G12.

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PICCOLO  
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HI 1295  
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Electrode