

**PICCOLO®**  
**PICCOLO® 2**  
**PICCOLO® plus**  
 ATC pH Testers



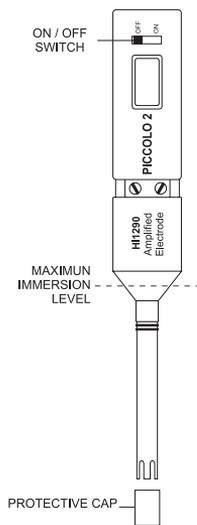
## SPECIFICATIONS

	PICCOLO® (HI98111)	PICCOLO®2 (HI98112)	PICCOLO® + (HI98113)
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)	±0.01 pH	±0.01 pH	±0.01 pH/ ±1 °C
Calibration	Manual, 2 point, through Offset & Slope trimmers		
Temperature Compensation	Automatic, 0 to 70 °C (32 to 150 °F)		
Probe (included)	HI1280	HI1290	HI1295
Battery Type/ Life	3 x 1.5V alkaline / approx. 100 hours		
Environment	0 to 50 °C (32 to 122 °F); RH max 95%		
Dimensions (with probe)	194 x 29 x 15 mm (7.6 x 1.1 x 0.6")	265 x 29 x 15 mm (10.4 x 1.1 x 0.6")	265 x 29 x 15 mm (10.4 x 1.1 x 0.6")
Weight	70 g (2.5 oz.)		

Each Piccolo® model is supplied complete with pH electrode, pH4.01 and pH7.01 buffer sachets, calibration screwdriver, rugged carrying case and instructions.

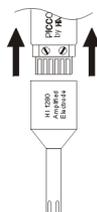
## ACCESSORIES

HI1280	Spare pH electrode for Piccolo® (90 mm/3.5")
HI1290	Spare pH electrode for Piccolo®2 (160 mm/6.3")
HI1295	Spare pH electrode for Piccolo®plus (160 mm/6.3")
HI70004P	pH4.01 buffer solution, 20 mL sachet, 25 pcs.
HI70007P	pH7.01 buffer solution, 20 mL sachet, 25 pcs.
HI70010P	pH10.01 buffer solution, 20 mL sachet, 25 pcs.
HI7004M	pH4.01 buffer solution, 230 mL bottle
HI7007M	pH7.01 buffer solution, 230 mL bottle
HI7010M	pH10.01 buffer solution, 230 mL bottle
HI70300M	Electrode storage solution, 230 mL bottle
HI7061M	Electrode cleaning solution, 230 mL bottle
HI731326	Calibration screwdriver (20 pcs.)



## OPERATION

- Connect the electrode to the meter as shown in the drawing, and turn the meter on.



*Note: The PICCOLO® plus model is provided with an OFF/pH/°C switch. Select the "pH" position for pH readings, or "°C" for temperature measurements.*

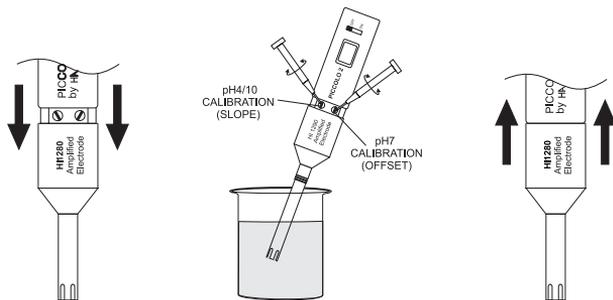
- Remove the protective cap and dip the electrode in the sample to be measured, without exceeding the maximum immersion level. Stir gently and wait for the reading to stabilize.
- The pH value automatically compensated for temperature variations will be displayed.
- After use, always switch the meter off.

## MAINTENANCE

- To reactivate a dry electrode, immerse it in HI70300 storage solution for 4 hours.
- After use, rinse the electrode with water and store it with a few drops of storage solution in the protective cap.

## CALIBRATION

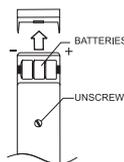
- To access the calibration trimmers, slide down the probe. Then turn the meter on.
- Dip the probe in HI7007 (pH7.01) buffer solution and allow the reading to stabilize. With the supplied screwdriver, adjust the "pH7" trimmer to read "7.01" pH.
- Rinse the electrode with water and dip it in the second buffer. Use HI7004 (pH4.01) buffer if the solution to be tested is acidic, or HI7010 (pH10.01) for alkaline samples.
- Allow the reading to stabilize, then adjust the "pH4/10" trimmer to read "4.01" or "10.01" pH.
- The calibration is now complete and the electrode can be slid back to its normal position.



## BATTERY REPLACEMENT

When the meter cannot be switched on or the display fades, batteries should be replaced.

Unscrew the upper screw and slide off the battery compartment. Replace all 3 batteries while paying attention to the correct polarity.



Reinsert the cover and tighten the screw. After battery replacement, it is always recommended to recalibrate the instrument.

Batteries should only be replaced in a safe area and using the battery type specified in this instruction manual.

## RECOMMENDATIONS FOR USERS

Before using this product, make sure it is entirely suitable for your specific application and for the environment in which it is used. Any variation introduced by the user to the supplied equipment may degrade the meters' performance. For yours and the meter's safety do not use or store the meter in hazardous environments.

## WARRANTY

These meters are guaranteed for one year against defects in workmanship and materials when used for their intended purpose and maintained according to instructions. Electrodes are guaranteed for six months. This warranty is limited to repair or replacement free of charge. Damages due to accident, misuse, tampering or lack of prescribed maintenance are not covered. If service is required, contact your local Hanna Instruments Office. If under warranty, report the model number, date of purchase, serial number and the nature of the failure. If the repair is not covered by the warranty, you will be notified of the charges incurred. If the instrument is to be returned to Hanna Instruments, first obtain a Returned Goods Authorization Number from the Customer Service department and then send it with shipment costs prepaid. When shipping any instrument, make sure it is properly packaged for complete protection.