



PEWA
Messtechnik GmbH

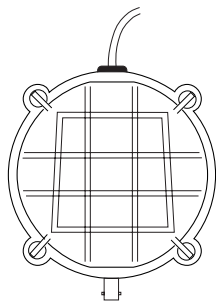
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Instruction Manual



pH system for PC



HANNA
instruments®
www.hannainst.com

Dear Customer,

Thank you for choosing a Hanna product. This manual will provide you with the necessary information for correct operation. Please read it carefully before using the pH system. If you need additional technical information, do not hesitate to e-mail us at tech@hannainst.com.

This instrument is in compliance with the **CE** directives.

PRELIMINARY EXAMINATION

Remove the instrument from the packing material and examine it carefully. If any damage has occurred during shipment, immediately notify your Dealer or the nearest Hanna Customer Service Center.

HI 9815 comes complete with **HI 1333B** pH electrode with 1 meter (3.3') cable and BNC connector.

Note: Conserve all packing material until the instrument has been observed to function. Any defective item must be returned to the Dealer in its original packing.

SPECIFICATIONS

Range	0.0 to 14.0 pH
Resolution	0.1 pH
Accuracy	±0.2 pH
Typical EMC Deviation	±0.2 pH
Electrode	HI 1333B (included)
Environment	0 to 50°C (32 to 122°F); RH 95% max
Dimensions	Ø 88 x 40 mm (Ø 3.5 x 1.6")
Weight	250 g (8.8 oz.)

ACCESSORIES

HI 981500	Windows® compatible software
HI 1333B	Double junction, plastic-body pH electrode with 1 m (3.3') cable and BNC connector.

DESCRIPTION & START UP

The HI 9815 pH Turtle is a pH transmitter equipped with an RS232 connector and cable as well as a BNC input for the pH electrode.

Any communication with the meter is performed through the PC.

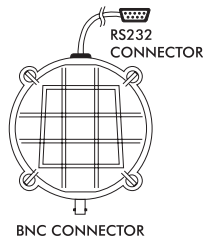
Before starting any operation, the HI 981500 software must be installed on your PC (refer to the software on-line help for details).

Connect the RS232 cable of HI 9815 to a serial port of your PC. Connect the pH electrode and dip it in the sample. Then run the pH Turtle software on your computer.

Refer to the software on-line help for measurement and calibration.

The pH Turtle software allows you to log measurements, view real-time graphs, compensate for the temperature variance and set the alarm limits right from the PC keyboard.

Data can be saved and further elaborated with common spread sheet programs (e.g. Excel®, Lotus 1-2-3®, etc.).



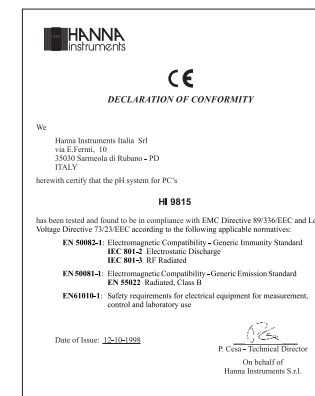
WARRANTY

HI 9815 pH transmitter is **guaranteed for 2 years** against defects in workmanship and materials when used for their intended purpose and maintained according to instructions. **The electrode is guaranteed for 6 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 the dealer from whom you had purchased the instrument. 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.

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Hanna Instruments reserves the right to modify the design, construction and appearance of its products without advance notice.

CE DECLARATION OF CONFORMITY



Recommendations for users

Before using this product, make sure that it is entirely suitable for the environment in which it is used. Operation of this instrument in residential areas could cause unacceptable interferences to radio and TV equipments. The glass bulb at the end of the electrode is sensitive to electrostatic discharges. Avoid touching this bulb at all times. During operation, ESD wrist straps should be worn to avoid possible damage to the electrode by electrostatic discharges. Any variation introduced by the user to the supplied equipment may degrade the instruments' EMC performance. To avoid electrical shock, do not use this instrument when voltages of the measurement surface exceed 24 Vac or 60 Vdc. To avoid damages or burns, do not perform any measurement in microwave ovens.

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