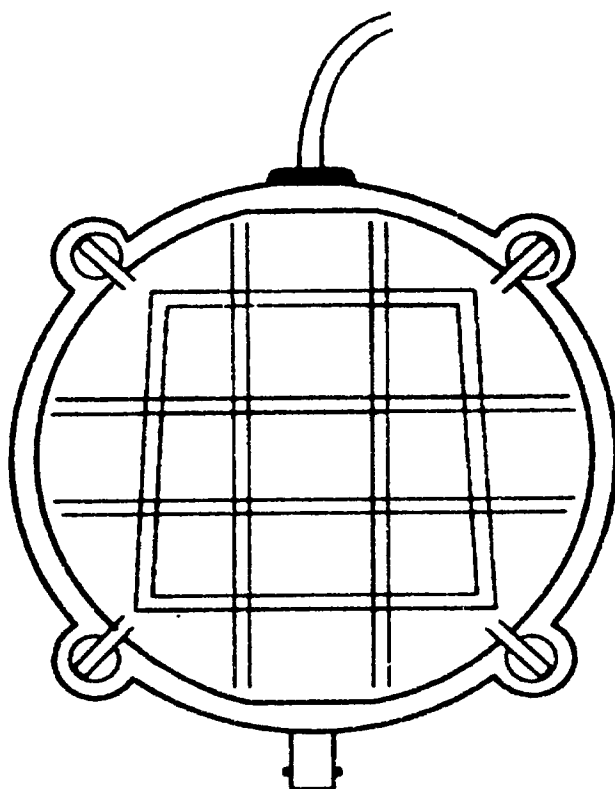


# Instruction Manual

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## pH system for PC's



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 **HANNA**  
instruments  
<http://www.hannainst.com>

**CE**  
This Instrument is in  
Compliance with the CE Directives

Dear Customer,

Thank you for choosing a Hanna product. This manual will provide you with the necessary information for a 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](mailto:tech@hannainst.com).

This instrument is in compliance with the **CE** directives EN 50081-1 and EN 50082-1.

## **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

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RANGE	0.0 to 14.0 pH
RESOLUTION	0.1 pH
ACCURACY	$\pm 0.2$ pH
TYPICAL EMC DEVIATION	$\pm 0.2$ pH
ELECTRODE	HI 1333B (included)
ENVIRONMENT	0 to 50°C
DIMENSIONS	4 H x 8 $\varnothing$ cm

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## ACCESSORIES

HI 92815/16	Windows®3.11 based software, free site license
HI 92815/32	Windows®95 based software, free site license
HI 1333B	Double junction, plastic-body pH electrode with 1 m (3.3') cable and BNC connector

# CE DECLARATION OF CONFORMITY



## DECLARATION OF CONFORMITY

We

Hanna Instruments Srl  
Via E. Fermi, 10  
35030 Sarmeola di Rubano (PD)  
ITALY

herewith certify that the pH system for PC's

HI 9815

has been tested and found to be in compliance with the following regulations:

IEC 801-2	Electrostatic Discharge
IEC 801-3	RF Radiated
EN 55022	Radiated, Class B
EN 61010-1	Electrical Safety

Date of issue: 15-02-98

  
D. Volpato - Engineering Manager

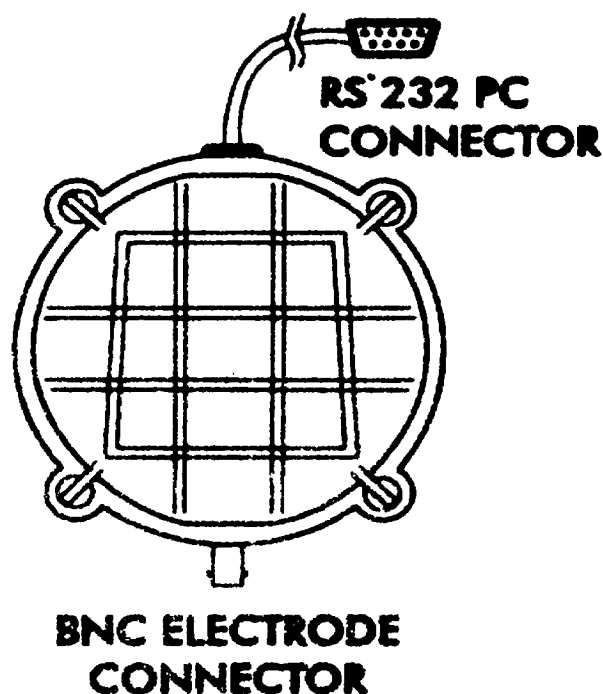
On behalf of  
Hanna Instruments S.r.l.

### 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 at the measurement surface exceed 24 VAC or 60 VDC. To avoid damages or burns, do not perform any measurement in microwave ovens.

## DESCRIPTION & START UP

The Hanna pH Turtle consists of a pH transmitter equipped with an RS 232 connector and cable as well as a BNC input for the pH electrode and the electrode itself. Any communication with the meter is performed through the PC.



Before operating the meter, HI 92815 pH Turtle software must be installed (refer to the software manual for installation).

Connect the pH Turtle's RS 232 cable to a free serial port of your PC. Connect the BNC electrode to the connector and dip it in your sample. Then run the pH Turtle software on your computer. Refer to the software manual for measurement.

The pH Turtle software allows you to log the measurements, visualize real-time graphs, compensate for the temperature variance right from the keyboard and to set the alarm limits as well as an exhaustive on-line help. It is also available in several languages. 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. HI 1333B pH electrode is guaranteed for 1 year. 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. To validate your warranty, fill out and return the enclosed warranty card within 14 days from the date of purchase.**

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