HI 706 Phosphorus High Range





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Dear Customer,

Thank you for choosing a Hanna Instruments Product. Please read this instruction manual carefully before using the instrument. If you need additional technical information, do not heasing to e-mail us at tech@hannainst.com or view our worldwide contact list at www.hannainst.com.

Preliminary examination:

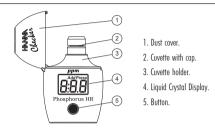
Please examine this product carefully. Make sure that the instrument is not damaged. If any damage occurred during shipment, please notify your Dealer.

- Each HI 706 meter is supplied complete with:
- Two Sample Cuvettes and Caps
- One bottle of Phosphorus HR Reagent A
- Twenty packets of Phosphorus HR Reagent B
- 1 x 1.5V AAA Battery
- Instruction Manual

ic For more details about spare parts and accessories see "Accessories".

Technical specifications:		
Range	0.0 to 15.0 ppm	
Resolution	0.1 ppm	
Accuracy	± 0.3 ppm $\pm 5\%$ of reading @ 25 °C / 77 °F	
Light Source	Light Emitting Diode @ 525 nm	
Light Detector	Silicon Photocell	
Method	Adaptation of the Standard Methods for the Examination of Water and Wastewater, 18 th edition, Heteropoly- molybdenum Blue method. The reaction between reactive phosphorus and the reagent causes a blue tint in the sample.	
Environment	0 to 50 °C (32 to 122 °F); max 95% RH non-condensing	
Battery Type	1 x 1.5V AAA	
Auto-Shut off	After 10 minutes of non-use	
Dimensions	81.5 x 61 x 37.5 mm (3.2 x 2.4 x 1.5")	
Weight	64 g (2.25 oz.)	

Functional description:



Errors and warnings:

L.H.	Please check
L.L o	Light Low: Please check
Inu	Inverted Cu
	Under Rang less light tha you use the s
- 15.0	Over Range the reading i
b A£	Battery Low
bÅd	Dead Batte replaced. On instrument v
b A£	meter.

Light High: There is too much light to perform a measurement. Please check the preparation of the zero cuvette.

Light Low: There is not enough light to perform a measurement. Please check the preparation of the zero cuvette.

Inverted Cuvettes: The sample and the zero cuvette are inverted.

Under Range: A blinking "0.0" indicates that the sample absorbs less light than the zero reference. Check the procedure and make sure you use the same cuvette for reference (zero) and measurement.

Over Range: A flashing value of the maximum concentration indicates the reading is over range. Dilute the sample and re-run the test.

Battery Low: The battery must be replaced soon.

Dead Battery: This indicates that the battery is dead and must be replaced. Once this indication is displayed, normal operation of the instrument will be interrupted. Change the battery and restart the meter.

Measurement procedure:

meter is zeroed.

- Turn the meter on by pressing the button. All seaments will be displayed. When the display shows "Add", "C.1" with "Press" blinking, the meter is ready.
- Fill the cuvette with 10 mL of unreacted sample and replace the cap. Place the cuvette into the meter and close the meter's cap.
- 10 mL Press the button. When the display shows "Add". "C.2" with "Press" blinking the

₩×10

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Add Press

15

888

- Remove the cuvette from the meter and unscrew the cap. Add 10 drops of HI 706AS reagent and the content of one packet of HI 706B-25 reagent. Replace the cap and shake gently until the reagent is completely SWELLIN SWELLIN dissolved. Place the cuvette back into the meter
- Press and hold the button until the timer is displayed on the LCD (the display will show the countdown prior to the measurement) or, alternatively, wait for 5 minutes and press the button.
- The instrument displays the results in mg/L (ppm) of phosphorus (P). The meter automatically turns off after 10 minutes.

INTERFERENCE Interference may be caused by: Sulfide (S2-Fluoride (F⁻)

Ferrous iron (Fe2+) above 100 mg/L

Arsenate (As0,3-)

Tips for an accurate measurement

- It is important that the sample does not contain any debris.
- Whenever the cuvette is placed into the measurement cell, it must be dry outside, and completely free of fingerprints, oil and dirt. Wipe it thoroughly with HI 731318 or a lint-free cloth prior to insertion.
- Shakina the cuvette can generate bubbles, causing higher readings. To obtain accurate measurements, remove bubbles by swirling or by gently tapping the cuvette
- Do not let the reacted sample stand for too long after reagent is added, as accuracy will be affected.
- After the reading it is important to immediately discard the sample, otherwise the alass might become permanently stained.

Battery management

To save the battery, the instrument shuts down after 10 minutes of non-use. One fresh battery lasts for a minimum of 5000 measurements. When the battery is dead the instrument will display "bAd" then "bAt" for 1 second and then turns off. To restart the instrument, the battery must be replaced with a new one. To replace the instrument's battery:

- Turn the instrument off by holding the button until the meter shuts off.
- Turn the instrument upside down and remove the battery cover with a screwdriver.



· Remove the battery from its location and replace it with a new one, inserting the 121206 negative end first.

Insert the battery cover and replace the screw with a screwdriver.

Accessories:

REAGENT SETS

HI 706-25 Reagent set for 40 Phosphorus High Range tests

OTHER ACCESSORIES

HI 706-11	Phosphorus HR Certified Standard Kit	
HI 731318	Cloth for wiping cuvettes (4 pcs.)	
HI 731321	Glass cuvettes (4 pcs.)	
HI 731225	Cuvette black cap for checker HC (4 pcs.)	
HI 731353	Cuvette seal cap for checker HC (4 pcs.)	
HI 740028	1.5V AAA batteries (4 pcs.)	
HI 93703-50	Cuvette cleaning solution (230 mL)	

Recommendations for Users

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Before using this product, make sure that it is entirely suitable for your specific application and for the environment in which it is used

Operation of this instrument may cause unacceptable interferences to other electronic equipment, thus requiring the operator to take all necessary steps to correct interferences.

Any variation introduced by the user to the supplied equipment may degrade the instrument's EMC performance.

To avoid damage or burns, do not put the instrument in microwave oven. For the safety of you and the instrument do not use or store the instrument in hazardous environments.

Hanna Instruments reserves the right to modify the design, construction or

appearance of its products without advance notice.

For additional information, contact your dealer or the nearest Hanna Customer Service Center. To find a Hanna Office in your area, visit our web site:

www.hannainst.com

