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You can read the recommendations in the user guide, the technical guide or the installation guide for HANNA INSTRUMENTS HI 96723. You'll find the answers to all your questions on the HANNA INSTRUMENTS HI 96723 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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INSTRUCTION MANUAL

HI 96723

Chromium VI HR ISM

Dear Customer,
Thank you for choosing a Hanna product. This manual will provide you with the necessary information for the correct use of the instrument. Please read it carefully before using the meter. If you need additional technical information, do not hesitate to e-mail us at info@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 96723 Ion Selection Meter is supplied complete with:
 - Two Sample Cuvettes and Caps
 - YY Battery
 - Instruction Manual

Note: save all packing material until you are sure that the instrument works correctly. Any defective items must be returned in its original packing.

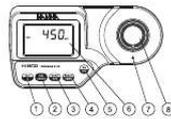
For more details about spare parts and accessories see "Accessories".

Technical specifications:

Range	0 to 1000 µg/L
Resolution	1 µg/L
Acuracy	±3 µg/L ±4% of reading @ 25°C
Typical EMC Dev.	±1 µg/L
Light Source	Incandescent lamp
Light Detector	Silicon Photocell with narrow band interference filter @ 525 nm
Method	Adaptation of the ASM Manual of Water and Environmental Technology, D1887-92, diphenylpicrylhydrazole method. The reaction between chromate and the reagent causes a purple tint in the sample.
Environment	0 to 50°C (32 to 122°F), max 95% RH non-condensing
Battery Type	1 x 9 volt
Auto-Shut off	After 10' of non-use in measurement mode, after 1 hour of non-use in calibration mode, with last reading memorized.
Dimensions	192 x 104 x 69 mm (7.6 x 4.1 x 2.7")
Weight	340 g (12.7 oz.)



Functional description:



- OLFA** key: press to enter **OLF** mode. In calibration mode press to edit the date and time.
- CAL CHECK** key: press to perform the validation of the meter, or press and hold for three seconds to enter calibration mode.
- ZERO/CFM** key: press to zero the meter prior to measurement, to custom edit values or to restore factory calibration settings.
- READ/TIMER** key: in measurement mode, press to make a measurement, or press and hold for three seconds to start a pre-programmed countdown prior to measurement. In **OLF** mode press to view the next screen.
- ON/OFF** key: to turn the meter on and off.
- Liquid Crystal Display (LCD)
- Cuvette alignment indicator
- Cuvette holder

DISPLAY ELEMENTS DESCRIPTION:



- The measuring scheme (lamp, cuvette, detector), appears during different phases of aim or reading measurement.
- Error messages and warnings.
- The battery icon indicates the charge state of the battery.
- The houghps icon indicates when an internal check is in progress.
- Status messages.
- The chronometer appears when the reaction timer is running.
- The month, day and date icons appear when a date is displayed.
- Four digit main display.
- Measuring units.
- Four digit secondary display.

Errors and warnings:

ON ZERO READING:



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



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



No Light: The instrument cannot adjust the light level. Please check that the sample does not contain any debris.

ON SAMPLE READING:



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



Zero: A zero reading was not taken. Follow the instructions of the measurement procedure for setting the meter.



Under range: A blinking "0" indicates that the sample absorbance is less 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 an over range condition. The concentration of the sample is beyond the programmed range. Dilute the sample and re-run the test.

DURING CALIBRATION PROCEDURE:



Standard Low: The standard reading is less than expected.



Standard High: The standard reading is higher than expected.

OTHER ERRORS AND WARNINGS:



Cap error: Appears when external light enters in the cuvette's cell. Assure that the cuvette cap is present.



Cooling lamp: The instrument waits for the lamp to cool down.



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. Charge the battery and restart the meter.

Measurement procedure:

Measurement



1. Turn the meter on by pressing ON/OFF.



2. When the beeper sounds briefly and the LCD displays dashes, the meter is ready. The blinking "ZERO" indicates that the instrument needs to be zeroed first.



3. Fill the cuvette with 10 mL of sample and replace the cap.



4. Place the cuvette into the holder and ensure that the notch on the cap is positioned correctly into the groove.



5. Press ZERO/CFM and the lamp, cuvette and detector icons will appear on the display, depending on the measurement phase.



6. After a few seconds the display will show "0.0". The meter is now zeroed and ready for measurement.



7. Remove the cuvette.



8. Add the content of one pocket of HI 96723-0 Chromium VI HR reagent. Replace the cap and shake vigorously.



9. Replace the cuvette into the holder and ensure that the notch on the cap is positioned correctly into the groove.



10. Press and hold READ/TIMER for three seconds. The display will show the countdown prior to measurement. The beeper is playing a beep at the end of countdown period.



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Manual abstract:

This manual will provide you with the necessary information for the correct use of the instrument. Please read it carefully before using the meter. If you need additional technical information, do not hesitate to e-mail us at tech@hannainst.com. Functional description: Errors and warnings: ON ZERO READING:

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. No Light: The instrument cannot adjust the light level. Please check that the sample does not contain any debris.

ON SAMPLE READING: Inverted cuvettes: The sample and the zero cuvette are inverted. Cooling lamp: The instrument waits for the lamp to cool down.

Battery low: The battery must be replaced soon. 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 96723 Ion Selective Meter is supplied complete with: · Two Sample Cuvettes and Caps · 9V Battery · Instruction Manual Note: save all packing material until you are sure that the instrument works correctly. Any defective item must be returned in its original packing. For more details about spare parts and accessories see "Accessories". 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. Technical specifications:

Range Resolution Accuracy Typical EMC Dev. Light Source Light Detector Method 0 to 1000 µg/L 1 µg/L ±5 µg/L ±4% of reading @ 25°C ±1 µg/L Tungsten lamp Silicon Photocell with narrow band interference filter @ 525 nm Adaptation of the ASTM Manual of Water and Environmental Technology, D1687-92, diphenylcarbohydrazide method. The reaction between chromium and the reagent causes a purple tint in the sample. @ @ 192 x 104 x 69 mm (7.6 x 4.1 x 2.7") 360 g (12.7 oz.

) 1. GLP/ key: press to enter GLP mode. In calibration mode press to edit the date and time. 2. @ @ 3. @ @ 4. @ @ In GLP mode press to view the next screen. 5. ON/OFF key: to turn the meter on and off.

6. Liquid Crystal Display (LCD) 7. Cuvette alignment indicator 8. Cuvette holder DISPLAY ELEMENTS DESCRIPTION: Measurement procedure:

Measurement 2 1· Turn the meter on by pressing ON/OFF. @ @ The blinking "ZERO" indicates that the instrument needs to be zeroed first.

Zero: A zero reading was not taken. Follow the instructions of the measurement procedure for zeroing the meter. Under range: A blinking "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 an over range condition.

The concentration of the sample is beyond the programmed range: dilute the sample and re-run the test. DURING CALIBRATION PROCEDURE: Standard

Low: The standard reading is less than expected. 3 4 3· Fill the cuvette with 10 mL of sample and replace the cap. 4· Place the cuvette into the holder and ensure that the notch on the cap is positioned securely into the groove. @ @ @ @ The meter is now zeroed and ready for measurement. 8 7· Remove the cuvette.

8· Add the content of one packet of HI 93723-0 Chromium VI HR reagent. Replace the cap and shake vigorously. 9· Replace the cuvette into the holder and ensure that the notch on the cap is positioned securely into the groove. 10· Press and hold READ/ /TIMER for three seconds.

The display will show the countdown prior to measurement. The beeper is playing a beep at the end of countdown period. 5-6 Environment Battery Type Auto-

Shut off Dimensions Weight www.hannainst.com 1. @ @ Error messages and warnings 3. The battery icon indicates the charge state of the battery 4. The hourglass appears when an internal check is in progress 5. Status messages 6. The chronometer appears when the reaction timer is running 7.

The month, day and date icons appear when a date is displayed 8. Four digit main display 9. Measuring units 10. @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ 1· Turn

the meter on by pressing ON/OFF. @ @ @ @ The display will show "CAL" during calibration procedure.

@ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ The meter is now zeroed and ready for calibration. The blinking "READ" asks for reading calibration standard. 7· Remove the

cuvette. @ @ @ @ @ @ @ @ 5· After a few seconds the display will show "-0.0-".

The meter is now zeroed and ready for validation. 6· Remove the cuvette. 7· Place the CAL CHECKTM Standard HI 96723-11 Cuvette B into the holder and ensure that the notch on the cap is positioned securely into the groove. 8· Press CAL CHECK key and the lamp, cuvette and detector icons together with "CAL

CHECK" will appear on the display, depending on the measurement phase. 9· At the end of the measurement the display will show the validation standard

value. 7 8 or dirt and that they are inserted cor- 11-13 rectly. 11· Then the date of last calibration (e.g.: "01.08.

2009") appears on the display, or "01.01.2009" if the factory calibration was selected before. In both cases the year number is blinking, ready for date input.

or 12· Press GLP/ to edit the desired year (2009-2099). If the key is kept pressed, the year number is automatically increased. 13· When the correct year has

been set, press ZERO/CFM or READ/ /TIMER to confirm. Now the display will show the month 13-14 blinking. 14· Press GLP/ to edit the desired month or

(01-12). If the key is kept pressed, the month number is automatically increased.

15· When the correct month has been set, press ZERO/CFM or READ/ /TIMER to confirm. Now the display will show the day blinking. 15 16· Press GLP/ to

edit the desired day (01-31). If the key is kept pressed, the 16 day number is automatically increased. Note: It is possible to change the editing from day to

year and to month by pressing 17 READ/ /TIMER.

17· Press ZERO/CFM to save the calibration date. 18· The instrument displays "Stor" for one second and the calibration is saved. 19· The instrument will

return automatically to measurement mode by displaying dashes on the LCD. FACTORY CALIBRATION RESTORE It is possible to delete the calibration and

restore factory calibration. 1· Press GLP/ to enter GLP mode.

@ @ The instrument asks for confirmation of user calibration delete. @ @ @ @ This warranty is limited to repair or replacement free of charge. @ @ If service

is required, contact your dealer. 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.



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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. Recommendations for Users Before using these products, make sure that they are entirely suitable for your specific application and for the environment in which they are used. Operation of these instruments may cause unacceptable interferences to other electronic equipme.



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