

## Oakton WD-35613-82

# Oakton WD-35613-82 Ion 6+ Handheld Meter Kit User Manual

Model: Ion 6+ | Part Number: WD-35613-82

## 1. INTRODUCTION

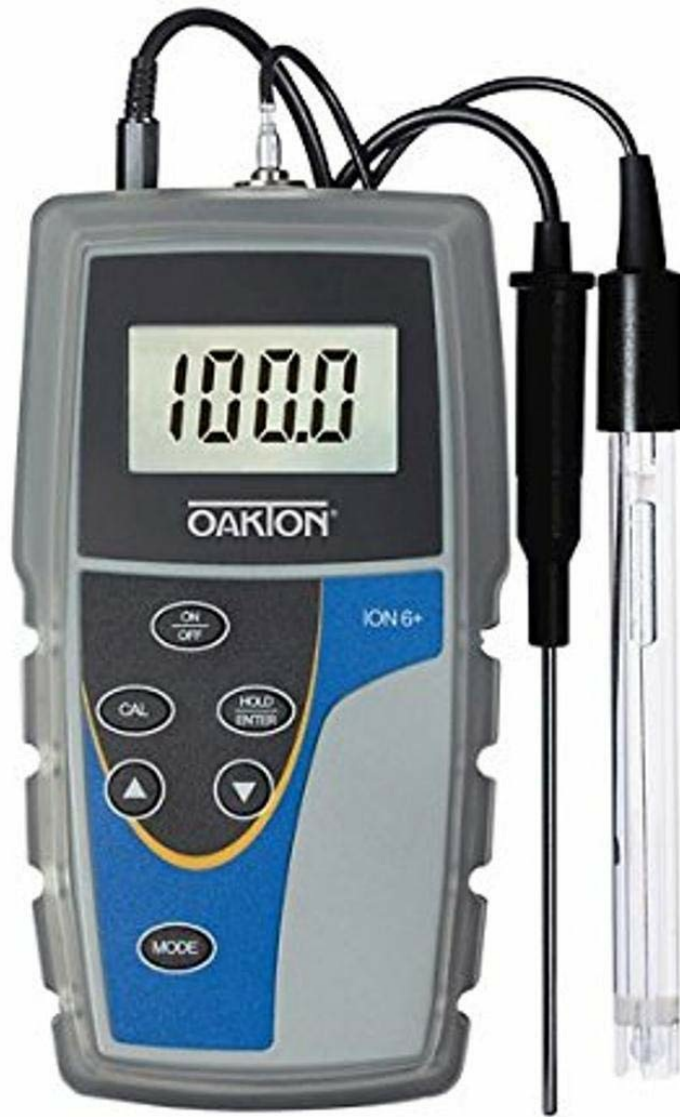
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This user manual provides detailed instructions for the proper setup, operation, calibration, maintenance, and troubleshooting of your Oakton WD-35613-82 Ion 6+ Handheld Meter Kit. To ensure accurate measurements and extend the lifespan of your device, please read this manual thoroughly before use and retain it for future reference.

## 2. PRODUCT OVERVIEW

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The Oakton Ion 6+ is a versatile handheld meter designed for precise pH and ion measurements. This kit includes essential components for immediate use in various applications.



This image displays the Oakton Ion 6+ handheld meter, a gray and blue device with a digital display showing '100.0'. It has control buttons for ON/OFF, CAL, HOLD/ENTER, MODE, and arrow keys. Two probes are connected to the top: a black temperature probe and a clear pH/ATC probe.

### 3. KIT CONTENTS

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Your Oakton WD-35613-82 Ion 6+ Handheld Meter Kit typically includes the following items:

- Oakton Ion 6+ Handheld Meter
- pH electrode
- ATC (Automatic Temperature Compensation) probe
- Protective rubber boot
- pH buffer solutions
- Solution bottles
- Rinse bottle
- Batteries
- Carrying case

## 4. SETUP

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Follow these steps for initial setup of your meter:

1. **Install Batteries:** Open the battery compartment on the back of the meter and insert the specified batteries, observing correct polarity.
2. **Connect Probes:** Carefully connect the pH electrode and the ATC probe to their respective ports at the top of the meter. Ensure connections are secure.
3. **Prepare Electrodes:** If the pH electrode is dry, condition it according to the electrode's specific instructions (usually by soaking in storage solution or buffer for a period).

## 5. OPERATION

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To take a measurement with your Ion 6+ meter:

1. **Power On:** Press the **ON/OFF** button to turn on the meter.
2. **Select Mode:** Press the **MODE** button to cycle through available measurement modes (e.g., pH, mV, Ion). Select the desired mode.
3. **Calibrate:** Perform a calibration as described in Section 6 before taking critical measurements.
4. **Immerse Probe:** Rinse the electrode with distilled water and immerse it into the sample solution. Ensure the electrode tip is fully submerged.
5. **Read Measurement:** Allow the reading on the display to stabilize. The meter will typically indicate stability.
6. **Hold Reading:** Press the **HOLD/ENTER** button to freeze the current reading on the display. Press again to release.
7. **Power Off:** Press the **ON/OFF** button to turn off the meter after use.

## 6. CALIBRATION

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Regular calibration is crucial for accurate measurements. Refer to the specific instructions for your pH electrode and buffer solutions for the exact calibration procedure. Generally, calibration involves:

1. **Prepare Buffers:** Use fresh, appropriate pH buffer solutions (e.g., pH 4.01, 7.00, 10.00).
2. **Enter Calibration Mode:** With the meter on and in pH mode, press the **CAL** button.
3. **Calibrate Points:** Immerse the electrode in the first buffer solution. The meter will automatically recognize the buffer and calibrate. Repeat for subsequent buffer solutions as prompted by the meter.
4. **Confirm Calibration:** Once all points are calibrated, the meter will typically confirm successful calibration.

## 7. MAINTENANCE

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Proper maintenance ensures optimal performance and longevity of your meter and probes:

- **Electrode Cleaning:** Regularly clean the pH electrode according to its specific instructions, especially if readings become sluggish or inaccurate.
- **Electrode Storage:** Store the pH electrode in its designated storage solution or a suitable buffer when not in use. Never store it dry.
- **Meter Cleaning:** Wipe the meter body with a damp cloth. Do not use abrasive cleaners or solvents.

- **Battery Replacement:** Replace batteries promptly when the low battery indicator appears to prevent data loss or meter malfunction.

## 8. TROUBLESHOOTING

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If you encounter issues with your Oakton Ion 6+ meter, consider the following:

- **No Power:** Check battery installation and ensure batteries are fresh.
- **Unstable Readings:** Ensure the electrode is properly conditioned and clean. Recalibrate the meter. Check for air bubbles around the electrode.
- **Inaccurate Readings:** Calibrate the meter with fresh, accurate buffer solutions. Check the condition of the pH electrode; it may need cleaning or replacement. Ensure the ATC probe is connected and functioning correctly.
- **Error Messages:** Refer to the specific error codes in the full product manual (if available) or contact technical support.

## 9. SPECIFICATIONS

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Feature	Detail
Model Number	WD-35613-82
Manufacturer	OAKTON Instruments
Package Dimensions	7 x 4 x 3 inches
Package Weight	5 Pounds
Country of Origin	United States
ASIN	B00AM2302G






## 10. WARRANTY AND SUPPORT

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For warranty information, technical support, or service inquiries, please contact OAKTON Instruments directly or refer to their official website. Keep your purchase receipt and model number handy when contacting support.

### Related Documents - WD-35613-82

	<p><a href="#">OAKTON ION Acorn Series Meters: Operating Instructions and Guide</a></p> <p>Comprehensive operating manual for OAKTON ION 5 and ION 6 Acorn Series pH/Ion Meters. Covers setup, calibration, measurement, maintenance, and troubleshooting for accurate water quality analysis.</p>
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	<p><a href="#">Oakton Water Quality Testers &amp; Meters Catalog   Cole-Parmer</a></p> <p>Explore the comprehensive range of Oakton water quality testers and meters from Cole-Parmer, featuring advanced pH, conductivity, and ORP measurement solutions for accurate analysis.</p>
	<p><a href="#">Oakton DO250/DO260 Dissolved Oxygen Meter Instruction Manual</a></p> <p>Comprehensive instruction manual for the Oakton DO250 and DO260 Dissolved Oxygen Meters, covering product overview, basic operations, calibration, data management, setup, maintenance, troubleshooting, and safety precautions.</p>
	<p><a href="#">Oakton 300 Series Handheld Water Quality Meter Instruction Manual</a></p> <p>Instruction manual for Oakton 300 Series handheld water quality meters (models 350, 360, 380). Covers operation, calibration, maintenance, safety, and specifications for accurate water analysis.</p>
	<p><a href="#">OAKTON 410 Timer with Alarm: Operating Instructions and Specifications</a></p> <p>Comprehensive operating instructions and specifications for the OAKTON 410 Timer with Alarm (Model WD-35002-00), detailing its features, button functions, timing modes, and alarm settings.</p>
	<p><a href="#">OAKTON pH 700 pH/ORP/TEMP Meter Operating Instructions</a></p> <p>This document provides comprehensive operating instructions for the OAKTON pH 700 pH/ORP/TEMP meter, covering its features, calibration, measurement procedures, troubleshooting, and technical specifications.</p>

Documents - Oakton – WD-35613-82

pH/Ion - Handheld Meters

**Handheld pH/Ion Meter Selection Guide**

Use this chart to find the best handheld pH or ion meter for your application

Meter	Ion	pH	Temp	ORP	Conductivity	Salinity	DO
DO250	No	Yes	Yes	Yes	No	No	Yes
DO260	No	Yes	Yes	Yes	No	No	Yes
DO350	No	Yes	Yes	Yes	No	No	Yes
DO360	No	Yes	Yes	Yes	No	No	Yes
DO380	No	Yes	Yes	Yes	No	No	Yes
DO410	No	Yes	Yes	Yes	No	No	Yes
DO420	No	Yes	Yes	Yes	No	No	Yes
DO430	No	Yes	Yes	Yes	No	No	Yes
DO440	No	Yes	Yes	Yes	No	No	Yes
DO450	No	Yes	Yes	Yes	No	No	Yes
DO460	No	Yes	Yes	Yes	No	No	Yes
DO470	No	Yes	Yes	Yes	No	No	Yes
DO480	No	Yes	Yes	Yes	No	No	Yes
DO490	No	Yes	Yes	Yes	No	No	Yes
DO500	No	Yes	Yes	Yes	No	No	Yes
DO510	No	Yes	Yes	Yes	No	No	Yes
DO520	No	Yes	Yes	Yes	No	No	Yes
DO530	No	Yes	Yes	Yes	No	No	Yes
DO540	No	Yes	Yes	Yes	No	No	Yes
DO550	No	Yes	Yes	Yes	No	No	Yes
DO560	No	Yes	Yes	Yes	No	No	Yes
DO570	No	Yes	Yes	Yes	No	No	Yes
DO580	No	Yes	Yes	Yes	No	No	Yes
DO590	No	Yes	Yes	Yes	No	No	Yes
DO600	No	Yes	Yes	Yes	No	No	Yes
DO610	No	Yes	Yes	Yes	No	No	Yes
DO620	No	Yes	Yes	Yes	No	No	Yes
DO630	No	Yes	Yes	Yes	No	No	Yes
DO640	No	Yes	Yes	Yes	No	No	Yes
DO650	No	Yes	Yes	Yes	No	No	Yes
DO660	No	Yes	Yes	Yes	No	No	Yes
DO670	No	Yes	Yes	Yes	No	No	Yes
DO680	No	Yes	Yes	Yes	No	No	Yes
DO690	No	Yes	Yes	Yes	No	No	Yes
DO700	No	Yes	Yes	Yes	No	No	Yes
DO710	No	Yes	Yes	Yes	No	No	Yes
DO720	No	Yes	Yes	Yes	No	No	Yes
DO730	No	Yes	Yes	Yes	No	No	Yes
DO740	No	Yes	Yes	Yes	No	No	Yes
DO750	No	Yes	Yes	Yes	No	No	Yes
DO760	No	Yes	Yes	Yes	No	No	Yes
DO770	No	Yes	Yes	Yes	No	No	Yes
DO780	No	Yes	Yes	Yes	No	No	Yes
DO790	No	Yes	Yes	Yes	No	No	Yes
DO800	No	Yes	Yes	Yes	No	No	Yes
DO810	No	Yes	Yes	Yes	No	No	Yes
DO820	No	Yes	Yes	Yes	No	No	Yes
DO830	No	Yes	Yes	Yes	No	No	Yes
DO840	No	Yes	Yes	Yes	No	No	Yes
DO850	No	Yes	Yes	Yes	No	No	Yes
DO860	No	Yes	Yes	Yes	No	No	Yes
DO870	No	Yes	Yes	Yes	No	No	Yes
DO880	No	Yes	Yes	Yes	No	No	Yes
DO890	No	Yes	Yes	Yes	No	No	Yes
DO900	No	Yes	Yes	Yes	No	No	Yes
DO910	No	Yes	Yes	Yes	No	No	Yes
DO920	No	Yes	Yes	Yes	No	No	Yes
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DO950	No	Yes	Yes	Yes	No	No	Yes
DO960	No	Yes	Yes	Yes	No	No	Yes
DO970	No	Yes	Yes	Yes	No	No	Yes
DO980	No	Yes	Yes	Yes	No	No	Yes
DO990	No	Yes	Yes	Yes	No	No	Yes
DO1000	No	Yes	Yes	Yes	No	No	Yes

[pdf] Guide

Oakton pH Ion Handheld Meters Selection Guide WD 35613 82 Style Hand Held ProcessControlExperts

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pH/ Ion Handheld Meters Handheld pH/Ion Meter Selection Guide Oakton handheld meters offer a wide range of features ideal for portability in the field. These meters are generally available with either a separate pH electrode and temperature probe, or a combination All-in-One pH and temperature ...

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**pH/Ion -- Handheld Meters**

### Ion 6+ Meter

Direct readout of ion concentration at an affordable price!

Use with pH or select ISE electrodes with ISE compensation. 10,000 mV range covers pH measurement needs. Allow you to check performance and calibration of your ion selective electrode.

Simple to use - Programmable calibration points allow easy background data recording in your lab.


pH and temperature °C readout - Wide range pH and °C (0-14) measurement.

Automatic temperature compensation (ATC) for pH. For the highest accuracy in changing temperature conditions. Computer able - Save your data to your PC.

All push-button operation - For fast, easy use.

Hold and Auto-off functions - Hold to read pH or ion concentration. Auto-off to save battery life.

Protective boot - Helps shield your meter from drops and dirt.



**Specifications**

Parameter	Range	Resolution	Accuracy	Temperature
pH	0.00 to 14.00	0.01	±0.01	0.1°C
mV	0.00 to 1000.0	0.1	±0.1	0.1°C
°C	0.0 to 100.0	0.1	±0.1	0.1°C

**Ordering Information**

Part Number	Description	Included
WD-35613-81	Ion 6+ meter only	None
WD-35613-82	Ion 6+ meter with calibration	Calibration solution, pH 7.00, pH 4.00, pH 10.00
WD-35613-83	Ion 6+ meter kit	Calibration solution, pH 7.00, pH 4.00, pH 10.00, pH electrode, ATC probe, protective boot, batteries

**Accessories**

WD-35613-84: "Big Red" single-junction, epoxy-body pH electrode

WD-35613-85: Replacement ISE probe

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## [pdf] Specifications Datasheet

datasheet OAKTON ION 6 pH Ion Meter Kit with Calibration wd 35613 83 globaltestsupply s cache |||

pH/Ion pH/Ion -- Handheld Meters Ion 6 Meter Direct readout of ion concentration at an affordable p ... WD-35613-81 Description Ion 6 meter only Included Meter, protective rubber boot, and batteries **WD-35613-82** WD-35613-83 Ion 6 meter kit Meter; single-junction, epoxy-body pH electrode; ATC prob...

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**pH/Ion -- Handheld Meters**

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**Ordering Information**

Part Number	Description	Included
WD-35613-81	Ion 6+ meter only	None
WD-35613-82	Ion 6+ meter with calibration	Calibration solution, pH 7.00, pH 4.00, pH 10.00
WD-35613-83	Ion 6+ meter kit	Calibration solution, pH 7.00, pH 4.00, pH 10.00, pH electrode, ATC probe, protective boot, batteries

**Accessories**

WD-35613-84: "Big Red" single-junction, epoxy-body pH electrode

WD-35613-85: Replacement ISE probe

1.800.561.8187 [www.itm.com](http://www.itm.com) [information@itm.com](mailto:information@itm.com)

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datasheet OAKTON ION 6 pH Ion Meter Kit with Calibration wd 35613 83 itm s cache |||

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**pH/Ion -- Handheld Meters**

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mV	0.00 to 1000.0	0.1	±0.1	0.1°C
°C	0.0 to 100.0	0.1	±0.1	0.1°C

**Ordering Information**

Part Number	Description	Included
WD-35613-81	Ion 6+ meter only	None
WD-35613-82	Ion 6+ meter with calibration	Calibration solution, pH 7.00, pH 4.00, pH 10.00
WD-35613-83	Ion 6+ meter kit	Calibration solution, pH 7.00, pH 4.00, pH 10.00, pH electrode, ATC probe, protective boot, batteries

**Accessories**

WD-35613-84: "Big Red" single-junction, epoxy-body pH electrode

WD-35613-85: Replacement ISE probe

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## [pdf] Specifications Datasheet

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pH/Ion pH/Ion -- Handheld Meters Ion 6 Meter Direct readout of ion concentration at an affordable p ... WD-35613-81 Description Ion 6 meter only Included Meter, protective rubber boot, and batteries **WD-35613-82** WD-35613-83 Ion 6 meter kit Meter; single-junction, epoxy-body pH electrode; ATC prob...

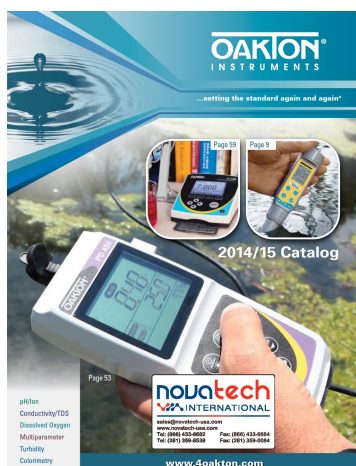
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