

Apera Instruments PC60

Apera Instruments AI316 PC60 5-in-1 Multi-Parameter Meter User Manual

Model: PC60

1. INTRODUCTION

This manual provides comprehensive instructions for the Apera Instruments AI316 PC60 5-in-1 Multi-Parameter Meter. The PC60 is designed for professional and quick measurement of pH, Electrical Conductivity (EC), Total Dissolved Solids (TDS), Salinity, and Temperature. It features a replaceable multi-parameter probe for ease of use and maintenance.

2. PACKAGE CONTENTS

The Apera Instruments AI316 PC60 kit includes the following items:

- Apera Instruments PC60 5-in-1 Multi-Parameter Meter
- PC60-E Multi-Parameter Probe (pre-installed)
- pH 4.00 Calibration Buffer Solution (8oz.)
- pH 7.00 Calibration Buffer Solution (8oz.)
- pH 10.01 Calibration Buffer Solution (8oz.)
- 3M KCl Storage Solution (4oz.)
- Lanyards, AAA Batteries, Quick Start Guide, and Carrying Case



Image 2.1: Apera Instruments PC60 5-in-1 Multi-Parameter Meter and Calibration Buffer Solution Kit.



Image 2.2: Contents of the PC60 kit, including the meter, various buffer solutions, and the user guide, neatly organized in a carrying case.

3. PRODUCT OVERVIEW

3.1 Meter Components

The PC60 meter consists of a main unit with an LCD display and control buttons, and a replaceable multi-parameter probe. The probe is designed for easy installation and replacement.



Image 3.1: Detailed view of the PC60 meter, highlighting its LCD screen, control buttons (Power, Measure, Mode, Calibrate), and the multi-parameter probe.

3.2 LCD Display

The meter features a large, clear LCD screen with three backlit colors, indicating different operating modes. It provides a dual display of temperature along with the primary measurement (pH, EC, TDS, or Salinity). Icons for completed calibrations and stable readings are also displayed for user convenience.

4. SETUP

Before first use, ensure the batteries are correctly installed. Remove the protective cap from the probe. Rinse the probe with distilled water and gently blot dry. It is recommended to perform a calibration before initial measurements to ensure accuracy.

5. CALIBRATION

Calibration is crucial for accurate measurements. The PC60 meter supports multi-point calibration. Use the provided Apera Instruments pH buffer solutions (pH 4.00, 7.00, and 10.01) which are color-coded for easy identification and are traceable to NIST Standard Reference Materials (SRMs).

5.1 pH Calibration

1. Turn on the meter.
2. Press the **CAL** button to enter calibration mode.
3. Rinse the probe with distilled water and immerse it in the first buffer solution (e.g., pH 7.00).
4. Wait for the reading to stabilize. A 'smiley face' icon will appear on the screen when the reading is stable.
5. Confirm the calibration point. The meter will prompt for the next buffer solution.
6. Repeat the process for the remaining buffer solutions (e.g., pH 4.00 and pH 10.01).
7. Exit calibration mode once all desired points are calibrated.

5.2 EC/TDS/Salinity Calibration

Refer to the detailed instructions in the quick start guide for specific EC/TDS/Salinity calibration procedures, as these may vary based on the desired measurement range.



Image 5.1: The set of Apera Instruments pH calibration buffer solutions (pH 4.00, 7.00, 10.01) and 3M KCl storage solution, essential for accurate meter calibration and maintenance.



Image 5.2: Apera Instruments pH calibration buffer solutions, each featuring a pH/Temperature Reference Chart on the label for precise calibration adjustments.

6. OPERATING INSTRUCTIONS

To take a measurement:

1. Turn on the meter by pressing the **POWER** button.
2. Press the **MODE** button to switch between pH, EC, TDS, and Salinity measurement modes.
3. Rinse the probe with distilled water and immerse it into the sample solution. Ensure the probe tip is fully submerged.
4. Gently stir the probe in the solution to remove air bubbles.
5. Wait for the reading to stabilize. The 'smiley face' icon will indicate a stable reading, at which point you can record the measurement.
6. After measurement, rinse the probe thoroughly with distilled water.

7. MAINTENANCE

7.1 Probe Care and Storage

Proper probe maintenance extends its lifespan and ensures accurate readings.

- Always rinse the probe with distilled or deionized water after each use.
- For long-term storage, immerse the probe in 3M KCl storage solution. Never store the probe dry or in distilled water.
- If the probe becomes dirty, gently clean it with a soft brush and a mild detergent solution, then rinse thoroughly.



Image 7.1: Apera Instruments 3M KCl Storage Solution, recommended for maintaining the pH/ORP electrode when not in use.

7.2 Buffer Solution Storage

The provided buffer solutions are double-sealed and have a 2-year expiration from manufacture for an unopened bottle. Store them at room temperature and keep containers tightly closed when not in use to maintain their accuracy.

8. TROUBLESHOOTING

If you encounter issues with your PC60 meter, consider the following common solutions:

- **Inaccurate Readings:** Recalibrate the meter. Ensure the probe is clean and properly stored. Check the expiration date of buffer solutions.
- **No Display/Power Issues:** Check battery installation and replace batteries if necessary.
- **Slow Response:** Clean the probe. Ensure the probe is properly hydrated in storage solution.
- **Error Messages:** Refer to the quick start guide for specific error code interpretations and solutions.

9. SPECIFICATIONS

The Apera Instruments PC60 meter is designed for precise measurements across multiple parameters:

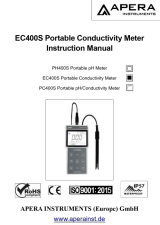
- **Parameters Measured:** pH, EC, TDS (ppm), Salinity, Temperature
- **pH Accuracy:** ± 0.01 pH at 25 °C
- **Temperature Display:** Dual display with primary measurement
- **Display Features:** Large LCD with 3 backlit colors, stable reading indicator ('smiley face' icon), calibration icons
- **Probe:** Replaceable multi-parameter probe
- **Waterproof Rating:** Yes (as indicated by product title)

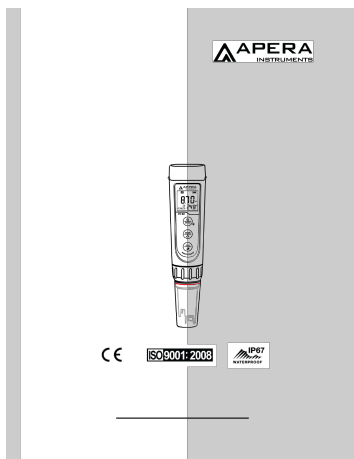
10. WARRANTY AND SUPPORT

Apera Instruments products are backed by a manufacturer's warranty. For detailed warranty information, technical support, or service inquiries, please visit the official Apera Instruments website or contact their customer service department. Please have your model number (PC60) and purchase date available when contacting support.

Related Documents - PC60

	Apera Instruments PC60 Premium 5-in-1 Tester User Manual Comprehensive user manual for the Apera Instruments PC60 Premium 5-in-1 Tester, covering pH, Conductivity, TDS, Salinity, and Temperature measurements. Includes setup, calibration, operation, maintenance, and troubleshooting.
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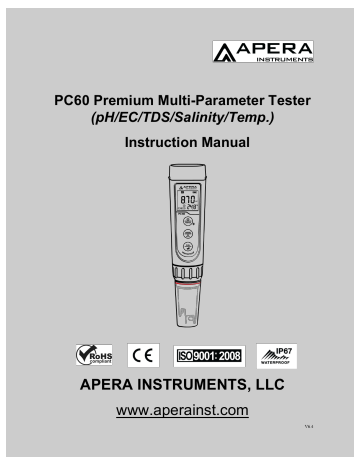
 PC60 Premium Multi-Parameter Tester (pH/EC/TDS/Salinity/Temp.) Instruction Manual APERA INSTRUMENTS (Europe) GmbH www.aperainst.de	Apera Instruments PC60 Premium Multi-Parameter Tester Instruction Manual Comprehensive instruction manual for the Apera Instruments PC60 Premium Multi-Parameter Tester, covering battery installation, keypad functions, preparation, pH and conductivity calibration and measurement, parameter settings, technical specifications, icons, probe replacement, and warranty information.
 Premium Series PC60 5-in-1 Tester (pH Conductivity TDS Salinity Temp.) User Manual APERA INSTRUMENTS, LLC apera.com	Apera Instruments PC60 Premium Series 5-in-1 Tester User Manual User manual for the Apera Instruments PC60 Premium Series 5-in-1 Tester, covering pH, conductivity, TDS, salinity, and temperature measurements. Includes setup, calibration, operation, and troubleshooting.
 EC400S Portable Conductivity Meter Instruction Manual APERA INSTRUMENTS (Europe) GmbH www.aperainst.de	Apera Instruments EC400S Portable Conductivity Meter Instruction Manual Comprehensive instruction manual for the Apera Instruments EC400S Portable Conductivity Meter, covering features, specifications, operation, calibration, sample measurement, maintenance, parameter settings, and USB data communication.
 Salt20 Pocket Salinity Tester Instruction Manual APERA INSTRUMENTS (Europe) GmbH www.aperainst.de	Apera Instruments Salt20 Pocket Salinity Tester Instruction Manual Instruction manual for the Apera Instruments Salt20 Pocket Salinity Tester, covering battery installation, keypad functions, calibration, salinity measurement, technical specifications, and warranty information.
 PH60Z-HT Smart pH Meter for High Temp. Solutions and Caustic Solutions User Manual APERA INSTRUMENTS (Europe) GmbH www.aperainst.de	PH60Z-HT Smart pH Meter User Manual - Apera Instruments User manual for the Apera Instruments PH60Z-HT Smart pH Meter, detailing its features, operation, calibration, maintenance, and troubleshooting for high temperature and caustic solutions.



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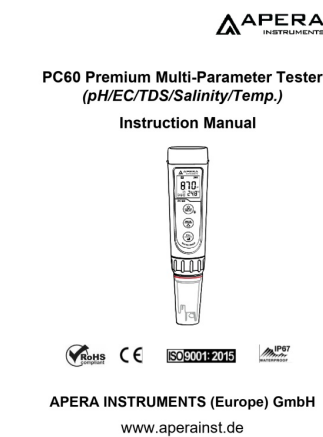
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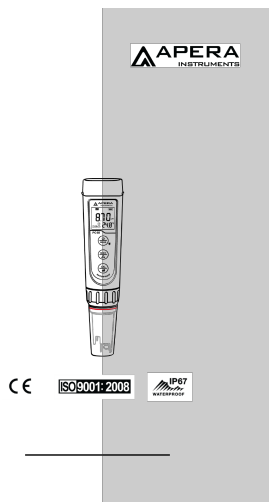
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[Apera Instruments PC60 Premium Multi-Parameter Tester Instruction Manual](#)

Comprehensive instruction manual for the Apera Instruments PC60 Premium Multi-Parameter Tester, covering battery installation, keypad functions, preparation, pH and conductivity calibration and measurement, parameter settings, technical specifications, icons, probe replacement, and warranty information.

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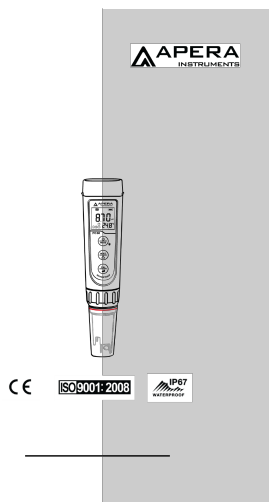
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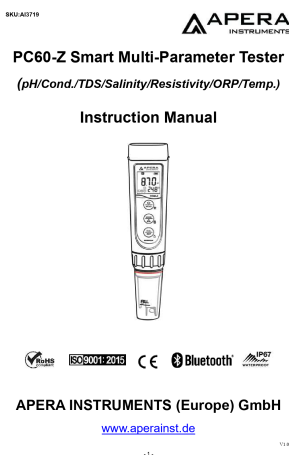
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SKU:AI3719 **PC60-Z** Smart Multi-Parameter Tester

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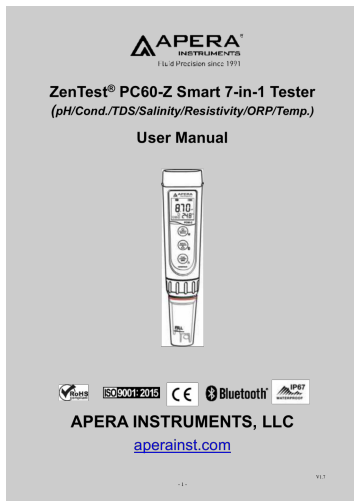


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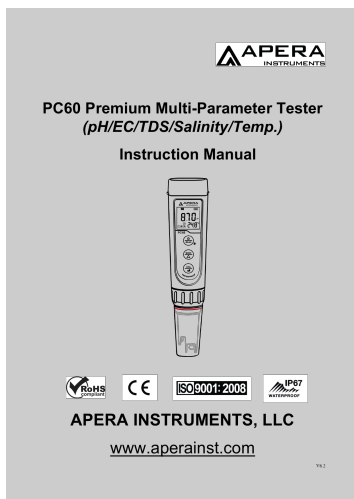
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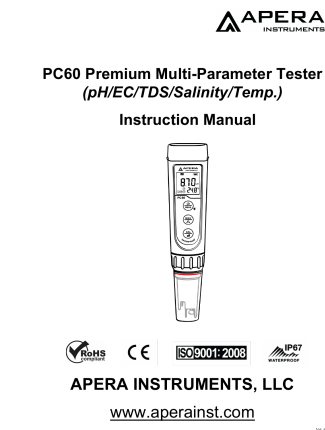
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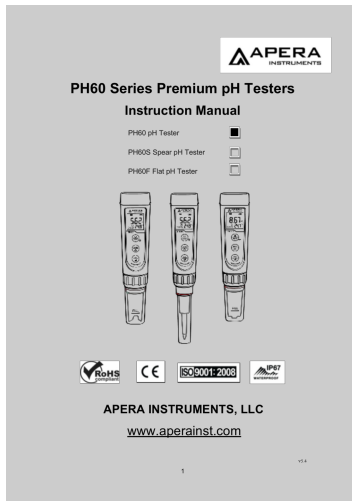
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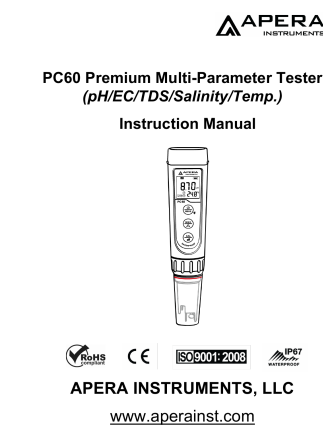
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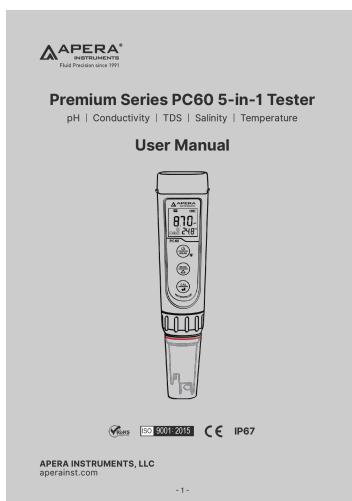
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TDS ppm Salinity ppt Temp Multi Parameter Pocket Tester Kit Industrial Scientific A19gd1Cko7L m media

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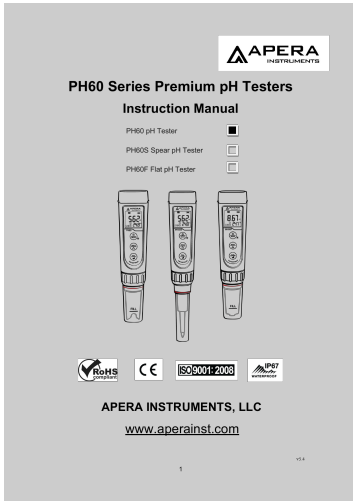
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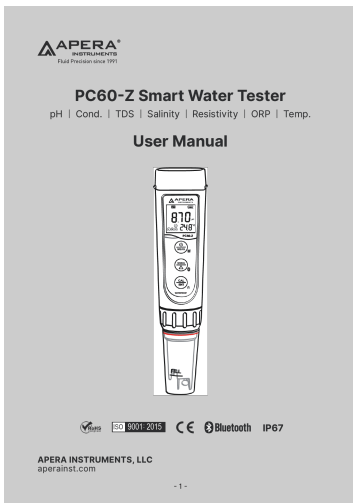
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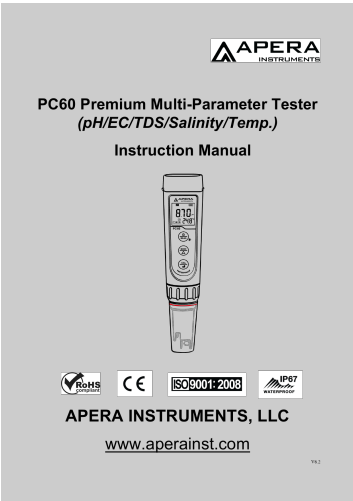


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Il sensore di ricambio elettrodo APERA INSTRUMENTS **PC60-DE** per la Serie 60-Z compatibile con: **PC60-Z** Rimuovere il cappuccio del sensore. Svitare l anello sul sensore e allentare il sensore. Collegare il nuovo sensore al dispositivo. Assicurati che l allineamento sia corretto. Riavvitare l anello...

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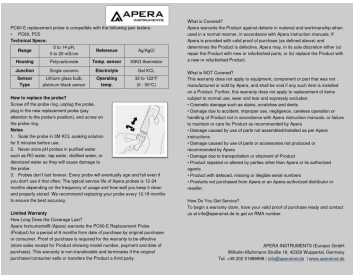
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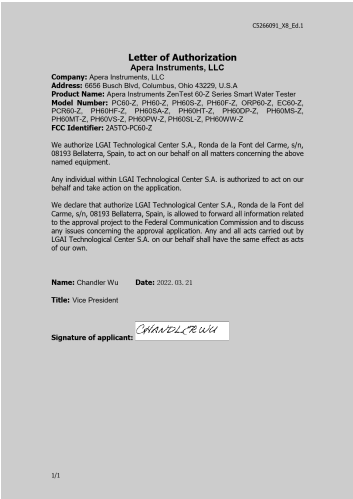
PC60-E replacement probe is compatible with the following pen testers: **PC60**, PC5

Technical Specs: Range 0 to 14 pH, 0 to 20 mS/cm Reference Ag/AgCl Housing

Polycarbonate Temp. sensor 30K thermistor Junction Sensor Type Single ceramic

Lithium glass bulb, platinum black sensor Electrolyte...

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16 Applus Adria Galin Pons Letter Authorization Apera Instruments LLC PC60 Z 2A5TO 2A5TOPC60Z

pc60 z

C5266091_X8_Ed.1 Letter of Authorization Apera Instruments, LLC Company: Apera

Instruments, LLC Address: 6656 Busch Blvd, Columbus, Ohio 43229, U.S.A Product

Name: Apera Instruments ZenTest 60-Z Series Smart Water Tester Model Number:

PC60-Z, PH60-Z, PH60S-Z, PH60F-Z, ORP60-Z, EC60-Z, PCR60-Z, PH60H...

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ZenTest™ PC60-Z Smart 7-in-1 Tester

(pH/Cond./TDS/Salinity/Resistivity/ORP/Temp.)

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SKU:AI3719 ZenTest™ **PC60-Z** Smart 7-in-1 Tester

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 PC60-Z replacement probe is compatible with the following pen testers:
 • PC60-Z, PC05, PC5

Technical Specs

Range	0 to 14 pH, 0 to 30 mS/cm	Reference	AquaG1
Housing	Polycarbonate	Temp. sensor	30K thermistor
Junction	Double ceramic	Electrolyte	Gel KCl
Sensor Type	Lithium glass bulb, platinum black sensor	Operating temp.	32 to 125°F (0 - 50°C)

How to replace the probe?

 Screw off the probe ring, unscrew the probe, plug in the new replacement probe (pay attention to the probe's position), and screw on the probe ring.
 After installation, perform at least a 2-point calibration before measuring.


Notes

1. Soak the probe in 3M KCl soaking solution for 5 minutes before use.
2. Never store pH probes in purified water such as RO water, tap water, distilled water, or deionized water as they will cause damage to the probe.
3. Probes don't last forever. Every probe will eventually age and fail even if you don't use it that often. The typical service life of Apera probes is 12-24 months depending on the frequency of usage and how well you keep it clean and properly stored. We recommend replacing your probe every 12-18 months to ensure the best accuracy.

Limited Warranty

 How Long Does the Coverage Last?
 Apera Instruments (Europe) GmbH warrants the PC60-Z Replacement Probe (Product) for a period of 6 months from date of purchase by original purchaser or consumer. Proof of purchase is required for the warranty to be effective (store sales receipt for Product showing model number, payment and date of purchase). This warranty is non-transferable and terminates if the original purchaser resells or transfers the Product to a third party.

 APERA INSTRUMENTS (Europe) GmbH
 Wilhelm-Mußmann-Strasse 16, 43229 Wuppertal, Germany
 Tel. +49 202 5198998 | info@aperainst.de | www.aperainst.de
[\[pdf\]](#) Specifications Warranty

Microsoft Word PC60 DE EN docx Ying Wu Replacement electrode for Z Apera Instruments aperainst de

2020 09 |||

PC60-DE replacement probe is compatible with the following pen testers: **PC60-Z**,**PC60**, PC5 Technical Specs: Range 0 to 14 pH, 0 to 20 mS/cm Housing

Polycarbonate Junction Sensor Type Double ceramic Lithium glass bulb, platinum

black sensor Reference Temp. sensor Electrolyte Operating temp. ...

lang:en **score:35** filesize: 60.13 K page_count: 1 document date: 2022-08-07

PC60-Z misuratore Smart Multiparametrico (pH / Conducibilità / TDS / Salinità / Resistenza / Temp.) Manuale utente



APERA INSTRUMENTS (Europe) GmbH

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[\[pdf\]](#)

Untitled PC60 Z IT Smart Multiparameter Messgerät Apera Instruments aperainst de 2020 09 |||

PC60-Z misuratore Smart Multiparametrico pH / Conducibilit / TDS / Salinit /

Resistenza / Temp. Manuale utente APERA INSTRUMENTS Europe GmbH

www.aperainst.de Contenuto Introduzione-----

----- - 3 Inserimento delle ...

lang:it **score:35** filesize: 477.67 K page_count: 16 document date: 2022-08-06

Apéra Instruments, LLC

Model Difference

Product description: Apéra Instruments ZenTest 60-Z Series Smart Water Tester

Model name: PC60-Z, PH60-Z, PH60S-Z, PH60F-Z, ORP60-Z, EC60-Z, PCR60-Z, PH60HF-Z, PH60SA-Z, PH60HT-Z, PH60DP-Z, PH60MS-Z, PH60MT-Z, PH60VS-Z, PH60PW-Z, PH60SL-Z, PH60WW-Z

Trade Name: N/A
FCC ID: DA5TO-PC60-Z

All the model are the same circuit and RF module, only for model name.

Regards
Sincerely

Clients signature:
Client's name / title: Chandler Wu (Vice President)
Contact information / address: 8836 Busch Blvd, Columbus, Ohio 43229, U.S.A



[pdf] Declaration of Conformity

5 WwW YlmF CoM tom Model family declaration Apéra Instruments LLC PC60 Z 2A5TO 2A5TOPC60Z

pc60 z

Apéra Instruments, LLC Model Difference Product description: Apéra Instruments ZenTest 60-Z Series Smart Water Tester Model name: **PC60-Z**, PH60-Z, PH60S-Z, PH60F-Z, ORP60-Z, EC60-Z, PCR60-Z, PH60HF-Z, PH60SA-Z, PH60HT-Z, PH60DP-Z, PH60MS-Z, PH60MT-Z, PH60VS-Z, PH60PW-Z, PH60SL-Z, PH60WW-Z Trade Name:...

lang:it **score:35** filesize: 80.89 K page_count: 1 document date: 2022-03-21

Der APERA INSTRUMENTS PH60-DE Ersatz-Sensor (Elektrode) für die Series 60-Z ist kompatibel mit:

- PH60-Z

Nehmen Sie die Sensorkappe ab. Schrauben Sie den Ring am Sensor ab und legen Sie den Sensor. Stecken Sie den neuen Sensor an das Gerät. Beachten Sie dabei die korrekte Ausrichtung. Schrauben Sie den Ring wieder an.

Vor der ersten Verwendung müssen Sie den Sensor in der Aufbewahrungslösung kalibrieren. Füllen Sie diese Lösung von der 3M KCL-Lösung in die Sensorkappe bis oben. Ca. 10-15 Minuten. Ist Taucher. Sie den Sensor 10-15 Minuten in die Flüssigkeit um eine kleine Menge der Lösung zu erhalten empfehlen wir, der Sensor in der 3M KCL-Lösung über Nacht (24 Stunden) kalibrieren. Es wird empfohlen, vor der KCL-Lösung, nicht mit dem BPH-Abgleichschemen (das empfohlenes Schema) in Kontakt kommen. Wischen Sie nur den pH-Sensor des Glaskerns ab.

*Video-Tutorials finden Sie unter <https://www.apera.cc> oder auf YouTube (Apéra Instruments / Tomco Official Channel).

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Compatible models for PH60-DE replacement probe:

- PH60-Z

How to replace the probe?

1. Screw off the probe ring, using the probe, plug in the new replacement probe (pay attention to the probe's position), and screw on the probe ring.

For first time use or if user has not used the probe for a long time, soak the probe in 3M KCL solution (provided in the box) for about 10 minutes to activate the pH sensor and achieve good accuracy (use for 12 hours to achieve best accuracy).

1. When soaking, do not let the KCL solution come in contact with the BPH assembly (see the double black line). Only soak the glass bulb pH sensor.

**Video tutorials are available at <https://www.apera.cc> or on YouTube (Apéra Instruments / Tomco Official Channel).

We warrant the electrode to be free from defects in material and workmanship and agree to repair or replace free of charge, at Apéra Instruments (Europe) GmbH any malfunctions or damaged product attributable to responsible use of APERA INSTRUMENTS (Europe) GmbH for a period of six months. This warranty does not apply to defects resulting from actions such as misuse (caution of the instructions in this manual or operations in the manner not specified in the manual), improper maintenance, or unauthorized repair. We warranty period is the time limit to provide free service for the products purchased by customers, and the service life of the probe.

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[pdf] User Manual

PC60 DE de en Ying Der APERA INSTRUMENTS Ersatz Sensor Elektrode für die Series 60 Z ist

kompatibel mit Nehmen Sie Sensorka aperainst 2020 09 |||

Der APERA INSTRUMENTS **PC60-DE** Ersatz -Sensor Elektrode fr die Series 60-Z ist kompatibel mit: **PC60-Z** Nehmen Sie die Sensorkappe ab. Schrauben Sie den Ring am Sensor ab und Isen Sie den Sensor. Stecken Sie den neuen Sensor an das Gert. Beachten Sie dabei die korrekte Ausrichtung. Schrauben Sie den ...

lang:de **score:35** filesize: 304.83 K page_count: 1 document date: 2020-01-29

Apéra Instruments PH60-E Replacement pH Probe

PH60-E replacement pH probe is compatible with the following pen testers:

- PH60, PH60S, PH60F, PH60T

Technical Specs

Range	Reference solution	Cell KCl
Housing	Polycarbonate	Temp. sensor
Junction	Single ceramic	Operating temp.
Reference electrode	Ag/AgCl	Sensor Type
		Lithium glass bulb

How to replace the probe?

Screw off the probe ring, using the probe, plug in the new replacement probe (pay attention to the probe's position), and screw on the probe ring.

After installation, perform at least a 2-point calibration before measuring.



Notes

1. Soak the probe in 3M KCL soaking solution for 5 minutes before use.
2. Never store pH probe in polluted water such as RO water, tap water, distilled water, or deionized water as they will cause damage to the probe.
3. pH probes don't last forever. Every pH probe will eventually age and fail even if you don't use it that often. The typical accuracy of Apéra pH probes is 12-18 months depending on the frequency of usage and how well you keep it clean and properly stored. We recommend replacing your probe every 12-18 months to ensure the best accuracy.

[pdf] User Manual Specifications

Microsoft Word Document1 User Manual Apéra Instruments LLC AI1201 PH60 E Replacement Probe for Pocket pH Tester Industrial Scientific 71mEjOlfm7L m media amazon images I |||

Apéra Instruments PH60-E Replacement pH Probe PH60-E replacement pH probe is compatible with the following pen testers: PH60, **PC60**, PH60S, PH60F Technical Specs Range Housing Junction Reference electrode 0 to 14 pH Polycarbonate Single ceramic Reference solution Temp. sensor Operating temp. ...

lang:en **score:35** filesize: 142.25 K page_count: 2 document date: 2021-07-27



**PC60 Premium Tester Multi-Parametri
(pH/EC/TDS/Salinità/Temp.)
Manuale utente**



APERA INSTRUMENTS (Europe) GmbH
www.aperainst.de

1942

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PC60 IT Premium 5 in 1 Multi Parameter Pocket Meter Apera Instruments Taschenmessgerät
aperainst de 2020 09 |||

PC60 Premium Tester Multi-Parametri pH/EC/TDS/Salinit/Temp. Manuale utente
APERA INSTRUMENTS Europe GmbH www.aperainst.de V6.2 Grazie per aver scelto
il misuratore multi-parametrico di APERA INSTRUMENTS **PC60 Premium**. Prima di
utilizzare il dispositivo, leggere attentamente queste istruzioni pe...

lang:it **score:35** filesize: 365.86 K page_count: 11 document date: 2022-08-06



**ZenTest™ PC60-Z Smart 7-in-1 Tester
(pH/Leitfähigkeit/TDS/Salzgehalt/Widerstand/ORP/
Temp.)
Bedienungsanleitung**



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1517

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Untitled PC60 Z DE Smart Multiparameter Messgerät Apera Instruments aperainst de 2020 09 |||

ZenTest™ **PC60-Z Smart 7-in-1 Tester**

pH/Leitfähigkeit/TDS/Salzgehalt/Widerstand/ORP/ Temp. Bedienungsanleitung APERA
INSTRUMENTS Europe GmbH aperainst.de V1.7 - 1 - Inhalt

Einleitung.....

lang:de **score:34** filesize: 542.17 K page_count: 18 document date: 2022-08-07



**Premium Series PC60 5-in-1 Tester
(pH/Conductivity/TDS/Salinity/Temp.)
User Manual**



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1

[Apera Instruments PC60 Premium 5-in-1 Tester User Manual](#)

Comprehensive user manual for the Apera Instruments PC60 Premium 5-in-1 Tester,
covering pH, Conductivity, TDS, Salinity, and Temperature measurements. Includes
setup, calibration, operation, maintenance, and troubleshooting.

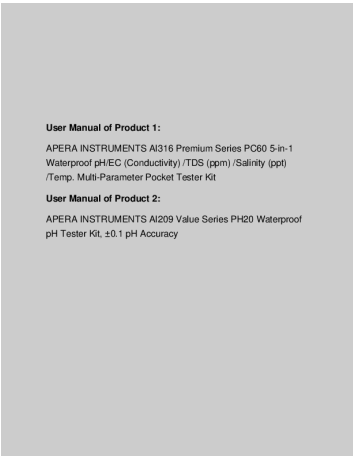
lang:en **score:34** filesize: 371.08 K page_count: 12 document date: 2022-08-07



[pdf] User Manual

PC60 DE Premium 5 in 1 Multi Parameter Pocket Meter Apera Instruments Taschenmessgerät aperainst de 2020 09 |||

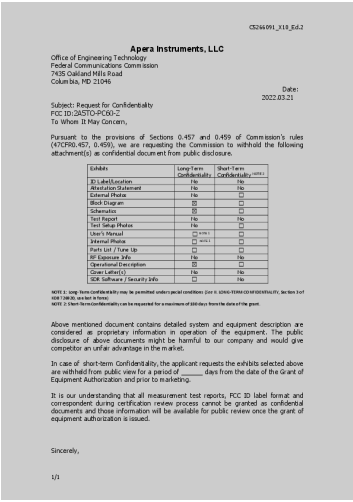
Premium Series **PC60** 5-in-1 Tester pH/Leitfhigkeit/TDS/Salzgehalt/Temp. Bedienungsanleitung APERA INSTRUMENTS Europe GmbH www.aperainst.de V7.7 Vielen Dank, dass Sie sich fr den Apera Instruments **PC60** Premium 5-in-1 Tester entschieden 1 haben. Bitte lesen Sie dieses Handbuch vor dem Gebrauch so... lang:de **score:34** filesize: 651.86 K page_count: 12 document date: 2022-02-25



[pdf] User Manual Troubleshooting Guide Specifications Guide Warranty

User Manual Apera InstrumentsAPER A INSTRUMENTS AI316 Premium Series PC60 5 in 1 Waterproof pH EC Conductivity AI209 Value PH20 Tester Kit Industrial Scientific A1alb0bprEL m media amazon images I |||

User Manual of Product 1: APERA INSTRUMENTS AI316 Premium Series**PC60** 5-in-1 Waterproof pH/EC Conductivity /TDS ppm /Salinity ppt /Temp. Multi-Parameter Pocket Tester Kit User Manual of Product 2: APERA INSTRUMENTS AI209 Value Series PH20 Waterproof pH Tester Kit, 0.1 pH Accuracy Premium Ser... lang:en **score:33** filesize: 1.92 M page_count: 21 document date: 0000-00-00



[pdf] Confidentiality Request Letter

16 Applus Adria Galin Pons Confidentiality Apera Instruments LLC PC60 Z 2A5TO 2A5TOPC60Z pc60 z C5266091_X10_Ed.2 Apera Instruments, LLC Office of Engineering Technology Federal Communications Commission 7435 Oakland Mills Road Columbia, MD 21046 Subject: Request for Confidentiality FCC ID:2A5TO-**PC60**-Z To Whom It May Concern, Date: 2022.03.21 Pursuant to the provisions of Sections 0.457 and... lang:en **score:33** filesize: 208.61 K page_count: 2 document date: 2022-03-21

Il sensore di scambio (elettrodo) APERA INSTRUMENTS ORP60-DA per la Serie 60-Z è compatibile con:

- FPOD-Z e PH60-Z e PH60F-Z e PH60S-Z
- Rimuovere il cappuccio del sensore.
- Svitare l'anello di serraggio e allentare il sensore.
- Collegare il nuovo sensore al dispositivo. Assicurati che l'allineamento sia corretto.

La protezione dell'elettrodo può essere rimossa o messa in place l'elettrodo e riprovarla dopo la pulizia.

*Puoi trovare video tutorial su www.aperainst.de oppure su YouTube (Apera Instruments Europe Official Channel).



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Compatible models for ORP60-DA replacement probe:

- FPOD-Z e PH60-Z e PH60F-Z e PH60S-Z

How to replace the probe?

Some of the probe ring, unplug the probe, plug in the new replacement probe (pay attention to the probe's position), and connect the probe ring.

*Video tutorial are available at www.aperainst.de or on YouTube (Apera Instruments Europe Official Channel).

We warrant the electrode to be free from defects in material and workmanship and agree to repair or replace free of charge, at option of APERA INSTRUMENTS (Europe) GmbH any malfunctioned or damaged product attributable to responsibility of APERA INSTRUMENTS (Europe) GmbH for a period of six months. This warranty does not apply to defects resulting from misuse such as: mis-use, isolation of the electrode in the manner not specified in the manual, improper maintenance, or uncalibrated repair. Warranty period is the time limit to provide free service for the products purchased by customers, not the service life of the probe.



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Microsoft Word ORP60 DA DE EN Michael Wolff Klamme IT Ersatzelektrode Apera Instruments aperainst de 2020 09 |||

Il sensore di ricambio elettrodo APERA INSTRUMENTS ORP60-DA per la Serie 60Z compatibile con: **PC60-Z** PH60-Z PH60F-Z PH60S-Z Rimuovere il cappuccio del sensore. Svitare l anello sul sensore e allentare il sensore. Collegare il nuovo sensore al dispositivo. Assicurati che l allineamento sia cor...

lang:it score:31 filesize: 100.15 K page_count: 2 document date: 2022-08-06

Il sensore di scambio (elettrodo) APERA INSTRUMENTS PH60S-DE per la serie 60-Z è compatibile con:

- FPOD-Z e PH60-Z e PH60F-Z e PH60S-Z
- Rimuovere il cappuccio del sensore.
- Svitare l'anello di serraggio e allentare il sensore.
- Collegare il nuovo sensore al dispositivo. Assicurati che l'allineamento sia corretto.

Il sensore PH60S-DE non deve mai essere conservato all'asciutto, poiché ciò può causare danni permanenti. Il sensore deve essere sempre conservato nella soluzione 3M KCL.

*Puoi trovare video tutorial su www.aperainst.de o su YouTube (Apera Instruments Europe Official Channel).



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Compatible models for PH60S-DE replacement probe:

- FPOD-Z e PH60-Z e PH60F-Z e PH60S-Z

How to replace the probe?

Some of the probe ring, unplug the probe, plug in the new replacement probe (pay attention to the probe's position), and connect the probe ring.

The liquid inside the probe cap is 3M KCL storage solution (3M® KCL). It helps keep the cap wet for several months. The sensor must be always stored in the storage solution when not in use. If liquid contaminated, replace with new one. (Using other liquid storage solution could cause further damage to the probe).

*Video tutorial are available at www.aperainst.de or on YouTube (Apera Instruments Europe Official Channel).

We warrant the electrode to be free from defects in material and workmanship and agree to repair or replace free of charge, at option of APERA INSTRUMENTS (Europe) GmbH any malfunctioned or damaged product attributable to responsibility of APERA INSTRUMENTS (Europe) GmbH for a period of six months. This warranty does not apply to defects resulting from misuse such as: mis-use, isolation of the electrode in the manner not specified in the manual, improper maintenance, or uncalibrated repair. Warranty period is the time limit to provide free service for the products purchased by customers, not the service life of the probe.



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Microsoft Word PH60S DE IT EN Michael Wolff Klamme Ersatzelektrode für Z Apera Instruments aperainst de 2020 09 |||

Il sensore di ricambio elettrodo APERA INSTRUMENTS PH60S-DE per la serie 60-Z compatibile con: PH60S-Z PH60-Z PH60F-Z **PC60-Z** Rimuovere il cappuccio del sensore. Svitare l anello sul sensore e allentare il sensore. Collegare il nuovo sensore al dispositivo. Assicurati che l allineamento sia corr...

lang:it score:31 filesize: 104.31 K page_count: 2 document date: 2022-08-06

Il sensore di scambio (elettrodo) APERA INSTRUMENTS PH60F-DE per la Serie 60-Z è compatibile con:

- FPOD-Z e PH60-Z e PH60F-Z e PH60S-Z
- Rimuovere il cappuccio del sensore.
- Svitare l'anello di serraggio e allentare il sensore.
- Collegare il nuovo sensore al dispositivo. Assicurati che l'allineamento sia corretto.

Prima di utilizzare per la prima volta, è necessario combinare lo stesso e nella soluzione di elettrolita. Per fare ciò, immergere nel proba soluzione 3M KCL nel cappuccio del sensore fino a quando non si sente per circa 10. Immergere l'elettrodo nel liquore per 10-20 minuti. Per ottenere una maggiore precisione nella misura è consigliabile immergere il sensore nella soluzione 3M KCL per una notte (12 ore).

*Puoi trovare video tutorial su www.aperainst.de o su YouTube (Apera Instruments Europe Official Channel).



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Compatible models for PH60F-DE replacement probe:

- FPOD-Z e PH60-Z e PH60F-Z e PH60S-Z

How to replace the probe?

Some of the probe ring, unplug the probe, plug in the new replacement probe (pay attention to the probe's position), and connect the probe ring.

For first time use or if you had not used the probe for a long time, soak the probe in 3M KCL solution (provided in the package) for about 10 minutes to activate the gel sensor and achieve good accuracy (read for 10 hours to achieve best accuracy).

*Video tutorial are available at www.aperainst.de or on YouTube (Apera Instruments Europe Official Channel).

We warrant the electrode to be free from defects in material and workmanship and agree to repair or replace free of charge, at option of APERA INSTRUMENTS (Europe) GmbH any malfunctioned or damaged product attributable to responsibility of APERA INSTRUMENTS (Europe) GmbH for a period of six months. This warranty does not apply to defects resulting from misuse such as: mis-use, isolation of the electrode in the manner not specified in the manual, improper maintenance, or uncalibrated repair. Warranty period is the time limit to provide free service for the products purchased by customers, not the service life of the probe.



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Microsoft Word PH60F DE EN Michael Wolff Klamme IT Ersatzelektrode für Z Apera Instruments aperainst de 2020 09 |||

Il sensore di ricambio elettrodo APERA INSTRUMENTS PH60F-DE per la Serie 60-Z compatibile con: PH60F-Z PH60-Z PH60S-Z **PC60-Z** Rimuovere il cappuccio del sensore. Svitare l anello sul sensore e allentare il sensore. Collegare il nuovo sensore al dispositivo. Assicurati che l allineamento sia corr...

lang:it score:31 filesize: 91.23 K page_count: 2 document date: 2022-08-06



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Microsoft Word PH60 DE EN Michael Wolff Klamme IT Spare electrode for Z Apera Instruments aperainst de 2020 09 |||

Il sensore di ricambio elettrodo APERA INSTRUMENTS PH60-DE per la Serie 60-Z compatibile con: PH60-Z PH60F-Z PH60S-Z **PC60-Z** Rimuovere il cappuccio del sensore. Svitare l'anello sul sensore e allentare il sensore. Collegare il nuovo sensore al dispositivo. Assicurati che l'allineamento sia corre...

lang:it **score:31** filesize: 86.47 K page_count: 2 document date: 2022-08-06



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User Manual Instructions Warranty

Microsoft Word PH60F E IT EN Michael Wolff Klamme flat pH electrode Apera Instruments aperainst de 2020 09 |||

Compatible models for PH60F-E replacement probe: PH60F, PH60, PH60S, **PC60** PH5F, PH5, PH5S, PC5 How to replace the probe Screw off the probe ring, unplug the probe, plug in the new replacement probe pay attention to the probe s position , and screw on the probe ring. The liquid inside the probe c...

lang:en **score:30** filesize: 95.98 K page_count: 2 document date: 2022-08-09



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User Manual Specifications Warranty

Replacement Electrode ORP for PC60 Z PH60 PH60S PH60F ORP60 DA User Manuals u drive google file d 14gKkjni8zhe c A5aDXExlTKchYEIfcM view usp link |||

ORP60-DA REPLACEMENT ORP PROBE USER MANUAL sales

labcoscientific.com.au labcoscientific.com.au 1800 052 226 PO Box 5816, Brendale, QLD 4500 ABN 57 622 896 593 Version 1.1 ORP60-DA replacement ORP probe is compatible with the following pen testers: - **PC60-Z**, PH60-Z, PH60S-Z and PH60F-Z TECHNICA...

lang:en **score:30** filesize: 713 K page_count: 4 document date: 2024-01-03



ZenTest™ PC60-Z Smart 7-in-1 Tester
(pH/Leitfähigkeit/TDS/Salzgehalt/Widerstand/ORP/
Temp.)

Bedienungsanleitung



ISO9001:2015 CE Bluetooth IP67
APERA INSTRUMENTS (Europe) GmbH
www.aperainst.de

13.1



PC60-Z Smart Multi-Parameter Tester
(pH/Cond./TDS/Salinity/Resistivity/ORP/Temp.)

Instruction Manual



ISO9001:2015 CE Bluetooth IP67
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Untitled ZenTest™ PC60 Z Smart 7 in 1 Tester Page pH Leitfähigkeit TDS Salzgehalt Widerstand ORP
Temp Bedienungsanleitung APERA INSTRUMENTS Europe 91qfAzRRZTL ref dp product quick view m
media amazon images I |||

ZenTest™ **PC60-Z** Smart 7-in-1 Tester
pH/Leitfähigkeit/TDS/Salzgehalt/Widerstand/ORP/ Temp. Bedienungsanleitung APERA
INSTRUMENTS Europe GmbH www.aperainst.de V1.7 - 1 - Inhalt

Einleitung.....

lang:de **score:30** filesize: 525.64 K page_count: 17 document date: 2024-07-26

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User Manual Specifications Warranty

APERA INSTRUMENTS LLC aperainst 16182146904ccf66b9895023064f3e158f25f212f7 newpages my
customer attachments |||

PC60-Z Smart Multi-Parameter Tester pH/Cond./TDS/Salinity/Resistivity/ORP/Temp.
Instruction Manual APERA INSTRUMENTS, LLC aperainst.com V1.03 - 1 - Contents
Introduction Battery Installation Keypad Functions Complete Kit Things to Know
Before Use pH Calibration pH Measurement Conductivity Calibr...

lang:en **score:30** filesize: 970.22 K page_count: 12 document date: 2020-05-07

[pdf]

Microsoft Word PH60S E IT EN Michael Wolff Klamme spitze pH Elektrode Apera Instruments aperainst
de 2020 09 |||

Elettrodo di ricambio PH60S-E L elettrodo di ricambio APERA INSTRUMENTS
PH60S-E per la serie 60 compatibile con: PH60S, PH60, PH60F, **PC60** PH5S, PH5,
PH5F, PC5 Rimuovere il cappuccio dell'elettrodo. Svitare l'anello sull'elettrodo e
allentare l'elettrodo. Collegare il nuovo elettrodo al dispositiv...

lang:it **score:30** filesize: 78.77 K page_count: 1 document date: 2022-08-06

Elettrodo di ricambio PH60S-E
L'elettrodo di ricambio APERA INSTRUMENTS PH60S-E per la serie 60 è
compatibile con:

- PH60S, PH60, PH60F, PC60

Rimuovere il cappuccio dell'elettrodo. Svitare l'anello sull'elettrodo e allentare
l'elettrodo. Collegare il nuovo elettrodo al dispositivo. Assicurarsi che l'allineamento
sia corretto. Rimuovere l'anello.

Il sensore PH60S-E non deve mai essere immerso nell'acido, poiché potrebbe
verificare danni permanenti. Rimuovere il sensore sempre accuratamente dalla
soluzione 3M KCL.

Garanzia
APERA INSTRUMENTS (Europe) GmbH concede una garanzia di 9 mesi su questo
prodotto. La garanzia del prodotto inizia dalla data del primo acquisto da parte
del primo cliente finale (data fattura). La garanzia copre il prodotto funzionante nel prodotto. Se durante il periodo di garanzia si verificano difetti del prodotto, dovuti a errori di fabbricazione o di materiale, APERA INSTRUMENTS
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garanzia non copre i danni causati da improprio, mancato rispetto delle istruzioni per l'uso, uso abusivo o modifiche
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Elettrodo di ricambio PH60S-E
L'elettrodo di ricambio APERA INSTRUMENTS PH60S-E per la serie 60 è
compatibile con:

- PH60S, PH60, PH60F, PC60

Rimuovere il cappuccio dell'elettrodo. Svitare l'anello sull'elettrodo e allentare
l'elettrodo. Collegare il nuovo elettrodo al dispositivo. Assicurarsi che l'allineamento
sia corretto. Rimuovere l'anello.

Il sensore PH60S-E non deve mai essere immerso nell'acido, poiché potrebbe
verificare danni permanenti. Rimuovere il sensore sempre accuratamente dalla
soluzione 3M KCL.

Garanzia
APERA INSTRUMENTS (Europe) GmbH concede una garanzia di 9 mesi su questo
prodotto. La garanzia del prodotto inizia dalla data del primo acquisto da parte del primo cliente finale (data fattura). La garanzia copre il prodotto funzionante nel prodotto. Se durante il periodo di garanzia si verificano difetti del
prodotto dovuti a errori di fabbricazione o di materiale, APERA INSTRUMENTS (Europe) GmbH ripara il prodotto o la parte difettosa gratuitamente o (a sua discrezione) lo sostituisce. In particolare, la garanzia non copre i danni causati da
improprio, mancato rispetto delle istruzioni per l'uso, uso abusivo o modifiche non autorizzate a scavo.

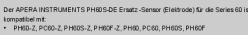
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^{*)}Video-Tutorials finden Sie unter www.aperainst.de oder auf YouTube (Apera Instruments Europe Official Channel).

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PH605-DE Sensor darf niemals in einem trockenen Zustand aufbewahrt, da eine dauerhafte Beschädigung verursacht werden kann. Der Sensor muss immer in der 3M KCL Lösung aufbewahrt werden.

APER INSTRUMENTS (Europe) GmbH gewährt auf dieses Produkt eine Garantie von sechs Monaten. Die Herstellergarantie beginnt am dem Erhebungsdatum durch den ersten Endnutzen (Rechnungsdatum). Die Garantie umfasst die fehlerhafte Funktion des Produktes. Sollten während der Garantiezeit Mängel des Produktes herausstellen, die auf Herstellung, oder Verarbeitungsfehler beruhen, so wird APER INSTRUMENTS (Europe) GmbH das Produkt oder den defekten Teil kostenfrei reparieren oder (nach Ermessen) ersetzen. Ausgenommen von der Garantie sind insbesondere Schäden, die durch unsachgemäßen Gebrauch, Missachtung der Bedienungsanleitung, nicht autorisierte Reparaturen und Modifikationen sowie Verschleiß entstanden sind.

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III

APER A INSTRUMENTS EC60-DE Ersatzelektrode fr die Series 60 ist kompatibel mit:

EC60-Z, **PC60**-Z, EC60, **PC60** Technische Daten: Messbereich Gehäuse Sensor Type

0 - 20 mS/cm Polycarbonate Platinum black sensor Zellkonstant Temp. sensor

Arbeitstemp. K=1 30K Thermistor 0 - 50C 32 - 122F 1. Nehmen Si...

lang:de **score:30** filesize: 70.98 K page_count: 1 document date: 2022-08-07

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09 |||

Der APERA INSTRUMENTS PH60S-DE Ersatz -Sensor Elektrode fr die Series 60 ist

kompatibel mit: PH60-Z, **PC60-Z**, PH60S-Z, PH60F-Z, PH60, **PC60**, PH60S, PH60F

Technische Daten: Messbereich 0 - 14 pH Referenz Ag/AgCl Gehuse Polycarbonate

Temp. sensor Diaphragma Sensor Type Offen LabSen spitze Gl...

lang:de score:29 filesize: 67.02 K page_count: 1 document date: 2022-08-07