

GREISINGER GPHU 014 MP/BNC

Greisinger GPHU 014 MP/BNC pH Measurement Converter Instruction Manual

Model: GPHU 014 MP/BNC

1. INTRODUCTION

This manual provides comprehensive instructions for the safe and efficient operation of your Greisinger GPHU 014 MP/BNC pH Measurement Converter. Please read this manual thoroughly before using the device to ensure proper functionality and to prevent damage. Keep this manual for future reference.

The GPHU 014 MP/BNC is designed to convert pH electrode signals into a standardized output, allowing for precise pH monitoring in various applications. It is intended for use with compatible pH electrodes featuring a BNC connector.

2. SAFETY INFORMATION

- Always operate the device within its specified environmental conditions.
- Do not expose the device to extreme temperatures, direct sunlight, or high humidity.
- Avoid dropping or subjecting the device to strong impacts.
- Ensure proper electrical connections are made according to the instructions to prevent electrical shock or damage.
- Do not attempt to open or repair the device yourself. Refer all servicing to qualified personnel.
- Use only compatible pH electrodes and accessories with this converter.
- Dispose of the device and any associated components in accordance with local environmental regulations.

3. PACKAGE CONTENTS

Please check the package contents upon receipt. If any items are missing or damaged, contact your supplier immediately.

- Greisinger GPHU 014 MP/BNC pH Measurement Converter
- Instruction Manual (this document)

- Mounting accessories (if applicable, check packaging)

Note: A pH electrode is not included with this converter and must be purchased separately.

4. PRODUCT OVERVIEW

The Greisinger GPHU 014 MP/BNC is a compact and robust pH measurement converter designed for industrial and laboratory applications. It features a clear digital display and intuitive controls for easy operation.



Figure 1: Front view of the Greisinger GPHU 014 MP/BNC pH Measurement Converter. The display shows "7.46 pH" and includes "ATC" and "Temp" indicators. Below the display are three buttons labeled "SET 1", "▼ 2", and "▲ 3". A BNC connector is visible on the right side for electrode connection. Two small ports are visible at the bottom.



Figure 2: Side view of the Greisinger GPHU 014 MP/BNC pH Measurement Converter, highlighting the BNC connector and the robust housing. The connector is labeled "AMPHENOL".

Key Components:

- **Digital Display:** Shows pH value, temperature, and status indicators.
- **SET Button (1):** Used to enter and confirm settings.

- **Down Button (2):** Used to navigate menus and decrease values.
- **Up Button (3):** Used to navigate menus and increase values.
- **BNC Connector:** For connecting a compatible pH electrode.
- **Power Input:** (Location not visible in images, refer to device for exact position)

5. SETUP

5.1. Mounting

The converter can be mounted using the integrated mounting points (screws visible in Figure 1). Ensure the mounting location is stable, free from excessive vibration, and within the specified operating temperature range.

5.2. Connecting the pH Electrode

1. Ensure the converter is powered off.
2. Carefully connect your pH electrode's BNC connector to the BNC input on the right side of the GPHU 014 MP/BNC converter (refer to Figure 1 and 2).
3. Ensure the connection is secure but do not overtighten.

5.3. Power Connection

Connect the appropriate power supply to the converter. Refer to the device labeling for specific voltage and current requirements. Ensure the power source is stable and matches the device's specifications.

5.4. Initial Calibration

Before first use, or after prolonged storage, the pH converter and electrode system must be calibrated. Refer to your pH electrode's manual for specific calibration buffer requirements.

1. Power on the device.
2. Access the calibration menu using the SET button. (Specific steps may vary, consult the device's on-screen prompts or a more detailed technical manual if available).
3. Follow the on-screen instructions to perform a 2-point or 3-point calibration using standard pH buffer solutions (e.g., pH 4.01, 7.00, 10.01).
4. Rinse the electrode thoroughly with distilled water between buffer solutions.
5. Confirm calibration settings.

6. OPERATING

6.1. Taking a Measurement

1. Ensure the pH electrode is properly connected and calibrated.
2. Immerse the pH electrode into the sample solution, ensuring the sensing bulb and reference junction are fully submerged.
3. Allow sufficient time for the reading to stabilize on the digital display. The display will show the current pH value.
4. Note any temperature readings if the electrode has an integrated temperature sensor and ATC (Automatic Temperature Compensation) is active.

6.2. Menu Navigation

The SET, ▼, and ▲ buttons are used to navigate through the device's menu options. Press SET to enter the menu or confirm a selection. Use ▼ and ▲ to scroll through options or adjust values.

- **SET (1):** Enter/Exit menu, confirm selection.
- **▼ (2):** Scroll down, decrease value.
- **▲ (3):** Scroll up, increase value.

Specific menu functions (e.g., setting alarm limits, output configuration) will be detailed in a more advanced technical manual or on-screen prompts.

7. MAINTENANCE

7.1. Cleaning the Converter

Wipe the exterior of the converter with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure no liquid enters the device.

7.2. pH Electrode Maintenance

Proper maintenance of the pH electrode is crucial for accurate readings and extended lifespan. Refer to your specific pH electrode's instruction manual for detailed care instructions. General guidelines include:

- Always keep the electrode's sensing bulb hydrated, typically in a storage solution or pH 7 buffer. Never store dry.
- Rinse the electrode with distilled or deionized water after each measurement.
- Clean the electrode regularly to remove sample residues. Specific cleaning solutions may be required depending on the application.
- Recalibrate the electrode regularly, especially if readings become unstable or inaccurate.

7.3. Storage

When not in use for extended periods, store the converter in a clean, dry environment at room temperature. Ensure the pH electrode is properly stored according to its manufacturer's recommendations.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No display/Device not powering on	No power, faulty power supply, incorrect connection.	Check power cable and source. Ensure correct voltage.
Unstable or inaccurate pH readings	Electrode not calibrated, dirty electrode, damaged electrode, air bubbles, incorrect temperature compensation.	Recalibrate electrode. Clean electrode. Replace electrode if damaged. Ensure electrode is fully submerged. Check ATC settings.

Problem	Possible Cause	Solution
"Error" message on display	Electrode fault, out of range measurement, internal device error.	Check electrode connection. Try another electrode if available. Refer to specific error codes in a detailed technical manual. Contact support if persistent.
Slow response time	Aged or dirty electrode, low sample temperature.	Clean or recondition electrode. Allow electrode to equilibrate with sample temperature. Consider replacing electrode.

If the problem persists after attempting these solutions, please contact Greisinger customer support or your local distributor.

9. SPECIFICATIONS

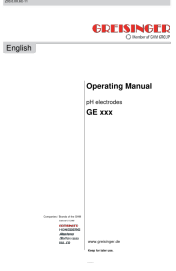




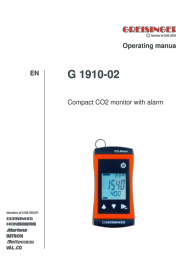
Feature	Detail
Manufacturer	GREISINGER
Item Model Number	602331
Product Dimensions (L x W x H)	5.5 x 8.2 x 8 cm; 9.07 grams
ASIN	B00ICKLET6
Quantity of items	1
Battery(ies) included	No
Battery(ies) required	No
Date first available on Amazon.com.be	12 August 2022
Discontinued by manufacturer	No
Spare parts availability	Information unavailable on spare parts

10. WARRANTY AND SUPPORT

Greisinger products are manufactured to high-quality standards. For information regarding warranty terms and conditions, please refer to the warranty card included with your product or visit the official Greisinger website.

For technical support, troubleshooting assistance beyond this manual, or to inquire about spare parts and service, please contact your authorized Greisinger dealer or the manufacturer directly. Contact information can typically be found on the product packaging or the official Greisinger website.

Related Documents - GPHU 014 MP/BNC

	<p>GREISINGER GE xxx Operating Manual: pH Electrodes</p> <p>Comprehensive operating manual for GREISINGER GE xxx series pH electrodes, covering safety, basics, measurement, calibration, maintenance, selection, and specifications. Includes detailed guidance for accurate pH measurement.</p>
	<p>GREISINGER GIA 20 EB / PK Manual: Connection and Operation</p> <p>This manual provides comprehensive instructions for the GREISINGER GIA 20 EB / PK microprocessor-controlled displaying, monitoring, and controlling device. It covers safety regulations, electrical connections for various input signals and output types, device configuration using software, switchpoint and alarm settings, offset/slope adjustment, serial interface, error codes, specifications, and disposal notes.</p>
	<p>GREISINGER GMH 3710 Precision Thermometer Operating Manual</p> <p>This operating manual provides detailed instructions for the GREISINGER GMH 3710 precision thermometer. It covers intended use, safety precautions, product specifications, handling, configuration, output options, input adjustments, probe connections, basic temperature measurement principles, fault messages, and disposal guidelines for Pt100 temperature sensors.</p>
	<p>Greisinger GDH 200 Series Manometers and Barometers: Technical Overview</p> <p>Discover the Greisinger GDH 200 series handheld pressure measurement instruments. This document details the GDH 200-07 fine manometer, GDH 200-13 manometer, and GDH 200-14 vacuum/barometer, highlighting their specifications and features for professional use.</p>
	<p>GREISINGER GMH 38-LW1 / -LW2 Moisture Meter Operating Manual Appendix</p> <p>Operating manual appendix for the GREISINGER GMH 38-LW1 / -LW2 moisture measuring set for agricultural applications. Covers intended use, safety, product description, handling, principles of measurement, and specifications for wood chips, grain, hay, and straw.</p>
	<p>G 1910-02 Compact CO2 Monitor with Alarm Operating Manual</p> <p>Operating manual for the G 1910-02 Compact CO2 Monitor with Alarm, detailing its features, safety instructions, operation, maintenance, and technical specifications.</p>

