MEYTEC®

POOL
AND SPA
ACCESSORIES

ENGLISH

USER MANUAL

NXG-PH

pH electrode · BNC

For pools, aquariums, hydroponics and water treatment.

pH 0–14
measuring range

BNC · 3 m
connection and cable

Ø 12 mm
diameter



i Read this user manual before first use and keep it for future reference.

About this electrode

The Meytec NXG-PH is a pH electrode with a glass sensor, BNC connection, 12 mm diameter and 3 metres of cable. It provides stable and precise readings for pools, aquariums, hydroponics, brewing and water treatment.

⚠ Veiligheid

- An electrode is a sensitive measuring instrument: the sensor is made of glass. Do not drop it and do not knock the sensor against anything.
- Wear gloves and safety glasses when working with calibration and cleaning solution. Read the label of the solution.
- Keep out of the reach of children.
- Switch off the controller or pump before you remove the electrode from a pipe or measuring chamber.
- Do not handle the BNC connector with wet hands.
- Do not lay the electrode cable next to a heavy electrical cable (power cable): this can cause interference and disturb the measurement.

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1 Package contents

IN THE BOX

- 1 × NXG-PH pH electrode with 3 m cable and BNC connector
- 1 × protective cap with storage solution KCl 3 mol/l

AVAILABLE SEPARATELY AT MEYTEC.EU

- Calibration solution pH 4, pH 7 and pH 10
- Storage solution KCl 3 mol/l
- Cleaning solution
- Electrode protective cap

2 Overview

PART	FUNCTION
BNC connector	Connects to the pH input of your meter or controller.
Cable 3 m	Do not kink, do not pull taut.
Shaft Ø 12 mm	Fits holders and measuring chambers for 12 mm.
Glass sensor	The small measuring bulb at the bottom. Do not touch, do not let it dry out.
Protective cap	With storage solution. Always refit after use.

3 Connecting and first use

Compatible with Sugar Valley, Hayward, Zodiac, AstralPool, Bayrol, Hanna, Milwaukee, Seko, Avady, Mettler, JBL and Bluelab, among others. Check that your device has a BNC input and accepts a 12 mm electrode.

1. Carefully remove the protective cap from the electrode. Do not throw away the storage solution; keep the cap upright.
2. Briefly rinse the sensor with clean water (tap water or demineralised water) and shake the electrode dry. Do not rub the glass.
3. Connect the BNC connector to the pH input of your device: push and turn the bayonet ring until it clicks into place.
4. Calibrate the new electrode at 3 points (pH 7, 4 and 10). See the chapter Calibrating.

> **TIP**
> Do not handle the BNC connector with wet hands, and keep it dry and clean.

4 Calibrating

3 POINTS · PH 7, 4, 10	For a new electrode or if you have not calibrated for a long time.
1 POINT · PH 7	For an interim check.
2 POINTS · PH 7 + 4 OR 7 + 10	As required by your meter or controller.

1. First clean the electrode if there are deposits on it (see Care) and rinse it.
2. Open a fresh sachet or a fresh bottle of calibration solution pH 7.
3. Place the electrode in the solution and swirl gently.
4. Wait until the value is completely stable (1–2 minutes).
5. Confirm the calibration on your meter or controller, according to the manual of that device.
6. Rinse the electrode, shake it dry and go to the next point (pH 4 or pH 10).

CAUTION

Always calibrate pH 7 first, then pH 4 and/or pH 10. Use calibration solution only once.

HOW OFTEN?

Calibrate when putting the electrode into service and regularly after that, according to the manual of your meter, dosing system or controller.

5 Measuring

1. Place the electrode in the holder or measuring chamber, with the sensor fully in the water.
2. Wait until the reading is stable before you read it.
3. If the electrode is installed in a pipe: make sure there is always water around the sensor, even when the pump stops.

6 Care and storage

CLEANING

1. Clean the electrode with cleaning solution to remove deposits, for a maximum of 15 minutes. Do this before you calibrate.
2. Then rinse thoroughly.
3. Recalibrate.

STORAGE

- Always store the electrode in the protective cap, filled with storage solution KCl 3 mol/l. Never dry and never in demineralised water: this can damage the electrode beyond repair.
- Top up the protective cap or replace the storage solution as soon as it is cloudy, old or contaminated.
- Store the electrode free from frost.

> **WEAR**
>
> An electrode is a consumable and wears from first use. With the right care, it lasts longer.

7 Troubleshooting

PROBLEM	POSSIBLE CAUSE	SOLUTION
Value keeps drifting or responds slowly	Dirty sensor or aged electrode	Clean (max. 15 min), rinse and recalibrate. If that does not help: replace the electrode.
Calibration fails	Old or used calibration solution	Use a fresh sachet or a fresh bottle.
Value jumps or is illogical	BNC connector loose, wet or dirty	Check that the connector is secure and dry.
Electrode was left dry	Glass sensor dried out	Place it in storage solution KCl 3 mol/l for at least an hour, preferably overnight, and recalibrate.

8 Technical specifications

Item number (SKU)	NXG-PH
Measuring range	pH 0.00–14.00
Accuracy	±0.01 pH
Resolution	0.01 pH
Sensor	Glass
Signal	Analogue
Operating temperature	0–80 °C
Maximum pressure	4 bar
Shaft material	Polycarbonate, transparent
Junction	Double
Reference	Double polymer diaphragm (HPM)
Electrolyte	KCl 3 mol/l
Refillable	No
Connection	BNC
Cable length	300 cm
Diameter	Ø 12 mm
Length	120 mm
Weight	125 g
EAN	5407007391608

9 Legal guarantee

An electrode is a consumable: it wears from first use. How quickly depends on use, the measurements taken and storage. Normal wear is not a defect.

As a consumer, you have a legal guarantee of at least 2 years from delivery. It covers defects that already existed at delivery, such as a manufacturing defect. This legal guarantee applies in full, and your statutory rights under the Consumer Rights Act 2022 are not affected.

The legal guarantee does not cover damage and faults that arise after delivery due to:

- drying out of the electrode, for example due to storage without storage solution or without a protective cap;
- mechanical damage, such as a broken glass membrane, a damaged cable or a dropped electrode;
- frost, heat or storage not in accordance with this manual;
- chemical attack by liquids or substances for which the electrode is not intended;
- moisture or water in the connector;
- use, cleaning or calibration not in accordance with this manual;
- repairs or modifications by anyone other than Meytec;
- normal wear and ageing.

Report a problem to info@meytec.eu. State your order number and a short description, preferably with a photo and the value the electrode shows in a fresh calibration solution.

10 Conformity

CE

Meytec BV declares that this electrode complies with the Electromagnetic Compatibility Directive 2014/30/EU (EN IEC 61000-6-1:2019 and EN IEC 61000-6-3:2021) and with the RoHS Directive 2011/65/EU, as amended by (EU) 2015/863. The EU declaration of conformity can be requested via info@meytec.eu.

11 Disposal and recycling



The crossed-out wheeled bin means: do not dispose of the electrode with household waste. Take it for separate collection.

Ireland: take the electrode free of charge to your local recycling centre (civic amenity site) or to a retailer that takes back electrical equipment.

In other countries, take the electrode free of charge to a municipal collection point or to a shop that takes back electrical and electronic equipment.

Calibration, cleaning and storage solution: dispose of residues according to the label and local regulations.

PACKAGING

Box
PAP 21 · card
Recycling bin

Protective foam
LDPE 4
Council

Always follow your local council's recycling rules.

12 Contact

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