MEYTEC®

POOL
AND SPA
ACCESSORIES

ENGLISH

USER MANUAL

NXG-ORP

ORP electrode gold · BNC

For pools with chlorine dosing or salt electrolysis.

±1999 mV
measuring range

BNC · 3 m
connection and cable

Gold
sensor



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

About this electrode

The Meytec NXG-ORP is an ORP electrode (redox) with a gold sensor, BNC connection, 12 mm diameter and 3 metres of cable. It is suitable for pools with chlorine dosing and with salt electrolysis.

Veiligheid

- An electrode is a sensitive measuring instrument: 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-ORP electrode with 3 m cable and BNC connector
- 1 × protective cap with storage solution KCl 3 mol/l
- 1 × free sachet of ORP 475 mV calibration solution

AVAILABLE SEPARATELY AT MEYTEC.EU

- ORP calibration solution 475 mV and other values
- Storage solution KCl 3 mol/l
- Cleaning solution
- Electrode protective cap

2 Overview

PART	FUNCTION
BNC connector	Connects to the ORP or redox input of your controller.
Cable 3 m	Do not kink, do not pull taut.
Shaft Ø 12 mm	Fits holders and measuring chambers for 12 mm.
Gold sensor	The measuring point at the bottom. Keep clean and free of deposits.
Protective cap	With storage solution. Always refit after use.

3 Connecting and first use

Compatible with Sugar Valley, Hayward, Zodiac, AstralPool, Bayrol, Hanna and Seko, among others. Please note: pH and ORP are not interchangeable; for pH control you need a separate pH electrode. Check that your device has a BNC input and accepts a 12 mm electrode.

1. Carefully remove the protective cap from the electrode and keep the cap upright.
2. Briefly rinse the sensor and shake the electrode dry.
3. Connect the BNC connector to the ORP input of your controller: push and turn the bayonet ring until it clicks into place.
4. Calibrate the new electrode with the calibration solution with the value your device requires. See the chapter Calibrating.

> **CAUTION**
> A new ORP electrode sometimes needs a few hours at start-up to become stable. So do not calibrate it immediately.

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

4 Calibrating

Check the manual of your measuring device or control system to use the correct calibration value. Usually this is 475 mV, 468 mV or 650 mV. In many cases you can also choose a setpoint yourself on a device. For this you can use the supplied ORP 475 mV sachet.

1. First clean the electrode if there are deposits on it (see Care) and rinse it.
2. Open a fresh sachet of calibration solution with the value your device requires.
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 controller, according to the manual of that device.
6. Remove the electrode from the solution immediately, rinse it and shake it dry.

> **CAUTION**
>
> ORP calibration solution is corrosive: do not leave the electrode in it longer than necessary and rinse it afterwards.

> **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. A new ORP electrode sometimes needs a few hours at start-up to become stable.
3. 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 with demineralised water.
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 drifts or responds slowly	Deposits on the gold sensor	Clean (max. 15 min), rinse with demineralised water and recalibrate.
Calibration fails	Old or used calibration solution, or wrong value	Use a fresh sachet and the value your controller requires.
Value jumps or is illogical	BNC connector loose, wet or dirty	Check that the connector is secure and dry.
Electrode no longer works after a long time	Electrode is worn (consumable)	Replace the electrode.

8 Technical specifications

Item number (SKU)	NXG-ORP
Measuring range	±1999 mV
Accuracy	±1 mV
Sensor	Gold sensor
Signal	Analogue
Operating temperature	0–80 °C
Maximum pressure	4 bar
Housing	PC (polycarbonate)
Junction	Double
Reference	Double polymer diaphragm (HPM) with KCl gel
Electrolyte	KCl 3 mol/l
Refillable	No
Connection	BNC
Cable length	300 cm
Diameter	Ø 12 mm
Length	120 mm
Weight	125 g
EAN	5407007391615

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 2015 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 damaged or scratched gold sensor, a broken housing, 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.

United Kingdom: take the electrode to your local household waste recycling centre 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
Paper and card



Protective foam
LDPE 4
Council

Always follow your local council's recycling rules.

12 Contact

Meytec BV
Poederleesteenweg 94/E3
2460 Kasterlee, Belgium
meytec.eu · info@meytec.eu · +32 3 377 83 23

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