MEYTEC®

POOL
AND SPA
ACCESSORIES

ENGLISH

USER MANUAL

NXG-EC

EC electrode graphite · BNC

For hydroponics, pool water and process water.

0–20 mS/cm
measuring range

0–10,000 ppm
TDS

BNC · 3 m
connection and cable

K = 1
cell constant



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

About this electrode

The Meytec NXG-EC is an EC electrode (conductivity) with 2 poles and graphite electrode plates, cell constant K = 1, BNC connection, 12 mm diameter and 3 metres of cable. It measures conductivity from 0 to 20 mS/cm, for hydroponics, pool water or process water.

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-EC EC electrode with 3 m cable and BNC connector

AVAILABLE SEPARATELY AT MEYTEC.EU

- Conductivity standard 1413 µS/cm and 12,880 µS/cm
- Electrode protective cap

2 Overview

PART	FUNCTION
BNC connector	Connects to the EC 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.
Electrode plates	2 graphite plates at the bottom. Keep clean, do not touch.

3 Connecting and first use

Suitable for EC meters and control systems with a BNC connection. Set your meter or controller to cell constant K = 1. Check that your device has a BNC input and accepts a 12 mm electrode.

1. Briefly rinse the electrode plates with demineralised water and shake the electrode dry.
2. Connect the BNC connector to the EC input of your meter or controller: push and turn the bayonet ring until it clicks into place.

3. Set your meter or controller to cell constant K = 1.
4. Calibrate the new electrode according to the manual of your device. See the chapter Calibrating.

> **CAUTION**
> Your meter or controller must be set to cell constant K = 1. With a different setting, the reading is not correct.

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

4 Calibrating

Calibrate according to the manual of your meter or control system, with a conductivity standard such as 1413 µS/cm or 12,880 µS/cm (at 25 °C).

1. Rinse the electrode with demineralised water and shake it dry.
2. Open a fresh sachet or pour fresh conductivity standard into a clean beaker.
3. Place the electrode in the solution, with the electrode plates fully immersed, and swirl gently.
4. Wait until the value is stable.
5. Confirm the calibration on your meter or controller, according to the manual of that device.
6. Rinse the electrode with demineralised water and shake it dry.

> **CAUTION**
> Use conductivity standard only once: never pour used solution back.

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 electrode plates 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 electrode plates, even when the pump stops.

6 Care and storage

CLEANING

1. Rinse the electrode with demineralised water after each use.
2. Shake it dry. Do not touch or rub the electrode plates.
3. Recalibrate if the measurement drifts.

STORAGE

- Store the electrode clean, after rinsing it with demineralised water.
- Protect the electrode plates against knocks.
- 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	Dirty electrode plates	Rinse with demineralised water and recalibrate.
Calibration fails	Old or used conductivity standard, or device not set to K = 1	Use fresh standard and check that your device is set to cell constant K = 1.
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-EC**
Measuring range	**0–20 mS/cm (0–20,000 µS/cm)**
TDS	**0–10,000 ppm (factor 0.5)**
Accuracy	**±2 %**
Number of poles	**2**
Electrode plates	**Graphite**
Cell constant	**K = 1 ± 0,2**
Operating temperature	**0–80 °C**
Housing	**PC (polycarbonate)**
Connection	**BNC**
Cable length	**300 cm**
Dimensions	**Ø 12 × 120 mm**
Weight	**125 g**
EAN	**5407007391622**

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:

- mechanical damage, such as damaged or broken electrode plates, 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 conductivity standard.

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.

Conductivity standard: dispose of residues according to the label and local regulations.

PACKAGING

21 PAP **Box** PAP 21 · card Recycling bin	4 LDPE **Protective foam** LDPE 4 Council

Always follow your local council's recycling rules.

12 Contact

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