MEYTEC®

POOL
AND SPA
ACCESSORIES

ENGLISH

USER MANUAL

GT-500EC

TDS/EC meter

Digital meter for conductivity (EC) and dissolved solids (TDS)

0 – 20,000 µS/cm
conductivity (EC), 0 – 20.00 mS/cm

0 – 10,000 ppm
dissolved solids (TDS), 1,000 ppm = 1 g/l

± 2 %
accuracy

4 × LR44
batteries already in the device

ATC
automatic temperature compensation

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



About this device

The Meytec GT-500EC is a pocket-sized digital TDS/EC meter. It lets you measure the conductivity (EC), the dissolved solids (TDS) and the temperature of water, quickly and easily.

Suitable for hydroponics and growing, aquariums and ponds, water treatment (for example demineralised water, osmosis water or process water) and the laboratory. Use MODE/CAL to switch between EC and TDS.

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1 Package contents

IN THE BOX

- GT-500EC TDS/EC meter with protective cap
- 4 LR44 button cells (already in the device)
- Quick start guide



AVAILABLE SEPARATELY AT MEYTEC.EU

- Conductivity standard 12,880 µS/cm (12.88 mS/cm)
- Conductivity standard 1,413 µS/cm

2 Safety

Read these safety instructions carefully. This way you use the device safely and avoid damage.

⚠ Button cells (LR44)

- Keep new and used button cells out of the reach of children.
- A swallowed button cell can cause severe internal burns within 2 hours.
- Do you suspect that someone has swallowed a button cell or put one inside their body? Seek medical help immediately and call 112.
- Ireland: Poisons Information Line 01 809 2166 (8am–10pm). Emergency: 112 or 999.
- Do not recharge the button cells. Do not open, burn or short-circuit them.
- Always close the battery compartment properly. Do not use the device if the compartment does not close properly.

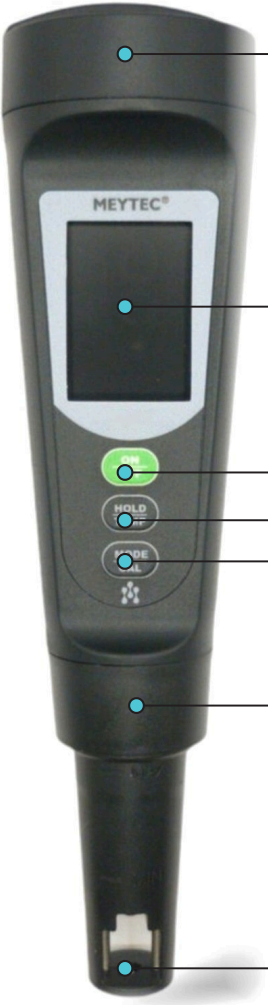
Use

- IP65: dustproof and resistant to water jets. Never immerse the device completely and never deeper than the MAX line.
- Screw both caps on firmly, the protective cap over the sensor at the bottom and the battery compartment at the top, and screw the sensor section on tightly, so that the device stays watertight. Water in the device due to a loose battery compartment or sensor section is not covered by the legal guarantee.
- Only measure within the temperature range of 0 to 50 °C.
- Do not drop the device and do not knock the electrode against anything.
- Keep the device out of the reach of children. It is not a toy.

Calibration solutions and pool water

- Follow the safety information on the label and in the safety data sheet of each solution.
- After contact with the skin or eyes, rinse thoroughly with water.

3 Device overview



1 Battery compartment
At the top, for 4 LR44 button cells.

2 Display
Shows the EC or TDS value, the temperature and the battery indicator.

3 ON/OFF
Switches the device on or off.

4 HOLD/TEMP
Hold the reading, or switch between °C and °F.

5 MODE/CAL
Switch between EC and TDS, or start calibration.

6 MIN and MAX lines
Immerse the device to between these 2 lines.

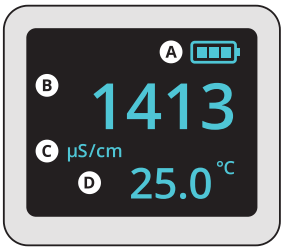
7 Electrode
The sensor, under the protective cap.

Keys and display

THE KEYS

ON/OFF	Press briefly: the device switches on or off.
HOLD/TEMP	Press briefly: the reading stays on the display. Hold for 5 seconds: switch between °C and °F.
MODE/CAL	Press briefly: switch between EC and TDS. Hold for 5 seconds: calibration mode at 12,880 µS/cm. Then press briefly: switch over to 1,413 µS/cm.

THE DISPLAY



- A Battery indicator
- B EC or TDS value
- C Unit
- D Temperature in °C or °F

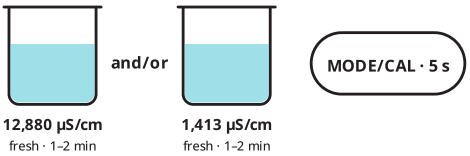
4 First use

1. Unpack the device and check that everything is present and undamaged.
2. Remove the protective cap from the electrode.
3. Press ON/OFF. The device switches on.
4. We recommend calibrating the device before the first measurement (see chapter 5).

> **TIP**
> Does the display stay blank? Check the button cells (see chapter 7).

5 Calibration

Always calibrate with a fresh conductivity standard, never with pH calibration solution. You choose: 1 point, with the standard closest to your usual reading, or 2 points for a full calibration.



1 POINT: 12,880	Calibrate in 12,880 µS/cm. Do not press MODE/CAL again afterwards.
1 POINT: 1,413	Briefly press MODE/CAL, then calibrate in 1,413 µS/cm.
2 POINTS	12,880 µS/cm, rinse, briefly press MODE/CAL, then 1,413 µS/cm.

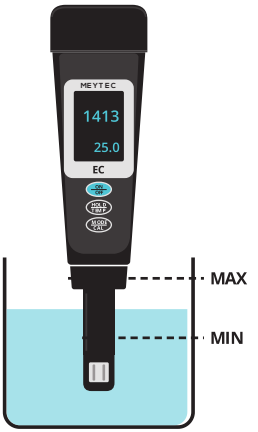
1. Open a fresh sachet or bottle of the standard you need. Never calibrate directly in a bottle: pour a small amount into a clean beaker, or calibrate in the sachet (single use).
2. Place the meter in the standard, between the MIN and MAX lines, and shake gently. Hold MODE/CAL for 5 seconds: calibration mode starts at 12,880 µS/cm.
3. For 1,413 µS/cm: briefly press MODE/CAL. The meter switches over and continues calibrating automatically. For 12,880 µS/cm, do not press again.
4. Wait until the value is completely stable (1 to 2 minutes).
5. Rinse and shake dry. For 2 points: meter in 1,413 µS/cm, briefly press MODE/CAL and wait again until the value is stable.

Rinse the meter and refit the protective cap.

> **TIP**
>
> Use a fresh sachet or a fresh bottle of conductivity standard for every calibration. This keeps the calibration accurate.

6 Measuring

1. Remove the protective cap.
2. Press ON/OFF.
3. Choose EC or TDS: briefly press MODE/CAL.
4. Immerse the meter only until the sensor is under water, between the MIN and MAX lines. Never immerse the meter completely.
5. Wait until the measurement is completely stable and read the EC value or the TDS value (ppm). The meter compensates for temperature automatically (ATC).
6. If required, briefly press HOLD/TEMP to hold the value.
7. Rinse the electrode with clean water, switch the device off and refit the protective cap.



Immersion: between the MIN and MAX lines.

EC AND TDS

EC (electrical conductivity) is the measured conductivity of the water, in µS/cm (1,000 µS/cm = 1 mS/cm). TDS (total dissolved solids) is an estimate in ppm that the meter calculates from the EC value: 1,000 ppm = 1 g/l.

For the most accurate results, look mainly at the EC value, and always calibrate with a conductivity standard.

7 Care and storage

CARE

- Rinse the electrode with tap water or demineralised water after each use.
- Always refit the protective cap.
- Calibrate regularly with a fresh conductivity standard.

STORAGE

- Store the device with the protective cap fitted.
- Store it in a dry place, out of the reach of children.

REPLACING THE BATTERIES

The button cells are already in the device on delivery. Does the battery indicator show an empty battery? Then replace all 4 button cells at the same time with 4 new LR44 button cells.

1. Switch the device off with ON/OFF.
2. Open the battery compartment (1) at the top of the device.
3. Remove the 4 button cells. Insert 4 new LR44 button cells, observing the + and the −.
4. Screw the battery compartment firmly shut so that the device stays watertight.
5. Take the empty button cells to a battery collection point (see chapter 11).

> ⚠ **Keeping it watertight**
>
> IP65: dustproof and resistant to water jets. Do not immerse completely. Always screw the battery compartment and the sensor section firmly shut so that the meter stays watertight. Water in the device due to a loose battery compartment or sensor section is not covered by the legal guarantee.

8 Troubleshooting

PROBLEM	POSSIBLE CAUSE	SOLUTION
The display stays blank.	The button cells are empty.	Replace the 4 LR44 button cells (see chapter 7).
The battery indicator is low.	The button cells are running low.	Replace all 4 button cells at the same time.
The value keeps changing.	The measurement is not yet stable, or the electrode is not immersed deep enough.	Immerse the device to between the MIN and MAX lines and wait until the value is stable.
The value does not seem correct.	The device has not been calibrated recently, or the solution is not fresh.	Recalibrate with a fresh conductivity standard: 12,880 µS/cm and/or 1,413 µS/cm.
The display shows TDS instead of EC, or vice versa.	The measuring mode has been changed.	Briefly press MODE/CAL.
The value no longer changes.	HOLD is on.	Briefly press HOLD/TEMP to continue measuring.
The temperature is shown in °F.	The unit has been changed.	Hold HOLD/TEMP for 5 seconds to return to °C.
The reading deviates after use in dirty water.	The electrode is contaminated.	Rinse the electrode with clean water and recalibrate.

> Does the problem persist? Contact Meytec via info@meytec.eu or +32 3 377 83 23. State the model and your order number.

9 Technical specifications

Model	GT-500EC
EC measuring range	0 – 20,000 µS/cm (0 – 20.00 mS/cm)
TDS measuring range	0 – 10,000 ppm
Conversion	1,000 ppm = 1 g/l
Accuracy	± 2 %
Temperature	0 – 50 °C
Temperature unit	°C or °F
Temperature compensation	Automatic (ATC)
Calibration	1 or 2 points: 12,880 µS/cm and/or 1,413 µS/cm
Protection rating	IP65: dustproof and resistant to water jets. Do not immerse completely.
Power supply	4 LR44 button cells
Battery indicator	Yes
EAN	5407007391837

10 Legal guarantee

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 in the meter, the display, the electronics, the housing or the built-in electrode. If such a defect appears within those 2 years, we assume it already existed at delivery, unless we prove otherwise. If you live in Ireland, your rights under the Consumer Rights Act 2022 also apply and are not affected; they can last up to six years. Meytec does not offer any additional commercial guarantee.

The built-in electrode is a consumable: it wears from first use and cannot be replaced separately. Normal wear is not a defect.

The legal guarantee does not cover damage and faults that arise after delivery, such as a dried-out electrode; damage from dropping or impact; water in the device because the battery compartment or the sensor section was not screwed firmly shut, or because the meter was immersed deeper than the MAX line or completely; damage from leaking batteries; frost, heat or storage not in accordance with this manual; cleaning, calibration or use not described in this manual; and repairs or work by third parties. Report a problem to info@meytec.eu, with your invoice.

11 Disposal and recycling



The crossed-out wheeled bin means: do not dispose of this device or its batteries with household waste. Take them for separate collection. This allows the materials to be reused and keeps harmful substances out of the environment.

Ireland: take the device 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 device and the batteries free of charge to a municipal collection point or to a shop that takes back electrical and electronic equipment.

BATTERIES



- Remove the button cells from the device before you hand it in.
- Take empty button cells free of charge to any shop that sells batteries (no purchase needed) or to a recycling centre.
- Batteries may contain substances that are harmful to the environment and to health. Taking them for separate collection makes recycling possible.
- How to reduce waste: use the device for as long as possible and replace only the button cells when they are empty.
- The crossed-out wheeled bin on the battery means: do not dispose of with household waste; take for separate collection.

PACKAGING



Box
PAP 21
Recycling bin



Insert
PET 1
Recycling bin

Always follow your local council's recycling rules.

12 Conformity and contact

This device complies with Directive 2014/30/EU (EMC) and Directive 2011/65/EU (RoHS), as amended by Directive (EU) 2015/863. The EU declaration of conformity can be requested via info@meytec.eu.

PRODUCT IDENTIFICATION

Type	**TDS/EC meter**
Model	**GT-500EC**
EAN	**5407007391837**
Lot number	**see the packaging**
Country of origin	**China**

MANUFACTURER AND CONTACT

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Company number	**BE 0747.687.975**

Manuals and downloads
meytec.eu/en-ie/downloads/instruction-manuals/

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GT-500EC TDS/EC meter user manual · English · Version 1.0 · October 2026