



Anton Paar

pH2Go

Instruction Manual
(Original)

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Further information

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Package Contents

pH2Go has been tested and packed carefully before shipment. However, damage may occur during transport. Keep the packaging material for possible returns and for further questions from the transport or insurance company.

To check the delivery for completeness, compare the supplied parts to those listed in the supplied parts list below. If a part is missing or damaged, contact the vendor of the device.

NOTICE:

A device stored at low temperatures can cause condensation of moisture on sensitive parts. To prevent malfunctions, allow the transport package and its contents to come to thermal equilibrium prior to opening.

Picture	Quantity	Description	Mat.no.
	1	pH2Go digital pH meter (incl. 2 AAA 1.5 V batteries)	389554
	1	Protection cap	389291
	1	Buffer solution pH 7	392032
	2	Pipettes	253411
	1	Safety Guide	392104

pH2Go Overview

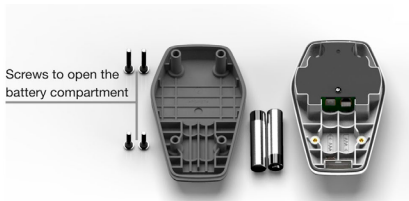
About the device

The digital pH meter pH2Go measures the pH value of liquids. In addition, a temperature sensor measures the sample temperature directly in the sample well. You operate and control the device via the mobile app on your smartphone. For the communication between the device and your smartphone, Bluetooth Low Energy is used.

Top view



Disassembled view



Sample well



How to Start with pH2Go – Quick Guide

Preparing pH2Go before use

- > Carefully remove pH2Go from its packaging.
- > Remove the protection cap from the sample well.
- > Rinse the sample well carefully with distilled water.
- > Dry the sample well using lint-free, scratch-free paper.

Switching pH2Go on/off

- > To switch pH2Go on, press the power button. The status LEDs will start blinking, indicating that your device is switched on.
- > To switch pH2Go off, press the button again.

NOTICE:

Never use any sharp objects to press the power button.

Connecting pH2Go to iOS or Android

- > Start the app on your smartphone.
- > Switch pH2Go on. The status LEDs will start blinking, indicating that your pH2Go is ready for the connection.
- > After a successful connection has been established with the device, the status LEDs are permanently on. The device is ready to perform measurements.

NOTICE:

pH2Go works with the corresponding app for iOS or Android, installed on a supported device. Data is transmitted via Bluetooth Low Energy wireless technology. The app can be downloaded from the Apple App Store or the Google Play Store.

Cleaning pH2Go

- > Clean the sample well before and after usage, as well as between the measurements.
- > Rinse the sample well thoroughly with tap water to remove any residue.
- > If necessary, also use a mild detergent for cleaning.
- > Finally, rinse the sample well with distilled water.
- > After cleaning gently dry the sample well with a soft, dry, non-abrasive cloth.

See section 4 "How to Clean pH2Go" for more details.

Calibrating pH2Go

- > Always calibrate pH2Go before starting a new measurement series. Incorrect calibration will result in inaccurate results.
- > Always use fresh and clean buffer solutions. Buffers with pH 7 (phosphate-based) and pH 4 (biphthalate-based) are more stable than buffers with pH 10 (borax- or carbonate-based), which can be affected by CO₂ in the air.
- > If calibration errors (e.g. slope errors) occur, this may be due to impurities in the sample well or a contaminated buffer. Clean the sample well and try calibrating with a fresh buffer solution.

- > Tris buffer and protein-containing samples may form a layer on the sensor. Measure such samples quickly and rinse the sensor thoroughly with deionized water between samples. Avoid prolonged exposure to these solutions.
- > Do not leave pH2Go in samples with very high or very low pH values for an extended period of time (not more than 15 minutes). After exposure, rinse with a neutralizing solution followed by distilled water.

See section 5 "How to Perform a Calibration" for more details.

Measuring samples

- > Ensure there is enough sample liquid to completely cover the sensor and diaphragm. The minimum sample volume is 0.5 ml. Insufficient sample volume will lead to inaccurate measurements.
- > Samples containing CO₂ (such as beer or wine) must be degassed and filtered before measurement to eliminate bubbles and particles that may affect the reading.
- > Between each sample, rinse the sample well thoroughly with distilled water and gently dry it with a soft cloth to avoid cross-contamination and ensure accurate results.

See section 6 "How to Perform a Sample Measurement" for more details.

Storing pH2Go

- > When storing the pH2Go for a longer period, add a few drops of pH 7 buffer solution to the sample well and close it using the protection cap to keep the diaphragm hydrated.

See section 7 "How to Store pH2Go" for more details.

Revitalizing pH2Go

- > If pH2Go has not been used for a longer period of time or the sample well has been stored dry for more than 2 days, perform a revitalization.

See section 8 "How to Perform a Revitalization of pH2Go" for more details.

How to Clean pH2Go

Regularly cleaning your device is very important. If it is not cleaned properly, inaccurate measurements can occur. This is often due to sample residue on the sensor or diaphragm.

If your device is experiencing problems such as unstable or false readings, failed calibration, or if the pH value does not change correctly when changing samples, the sensor or diaphragm is likely dirty. If this happens, clean your device and revitalize it.

To prevent stubborn contamination and ensure optimal performance, rinse the sample well thoroughly with distilled water after each measurement.

We also recommend cleaning the sample well with distilled water before storing it in pH 7 buffer, to keep the sensor and diaphragm clean and ready for the next use.

To clean the device:

- > Soak the sample well in warm tap water (approx. 60 °C/ 140 °F) with a mild detergent for about 5 minutes.
- > Then rinse the sample well thoroughly with distilled water or ethanol.
- > After cleaning, gently dry the sample well with a soft tissue. Do not use sharp or abrasive objects or cloths to clean or dry the sample well — this could damage or scratch the sensor or diaphragm.

NOTICE:

- > Never brush the sensor or diaphragm before rinsing. There may be residues on the sensor and diaphragm that could scratch or damage the sensor and diaphragm. Always rinse first with tap water or distilled water.
- > Proteins, fats and oils can be removed with a solution of Terg-A-Zyme or similar product. Afterward, rinse thoroughly with distilled water.
- > Do not use hydrofluoric acid, acetone, MEK or similar agents to clean the device. The wetted parts of the device are not resistant to these chemicals.

How to Perform a Calibration

To ensure your device displays accurate and reliable values, regular calibration is essential. Calibration adjusts the device to known reference points (buffer solutions). This helps maintain measurement accuracy.

Calibration should be performed regularly, depending on:

- The frequency of use of the device
- The required accuracy of the results
- At least twice a month but for frequent or critical use: weekly or before each use

Calibration is also required in the following cases:

- The device has not been used for several days
- The device has been soaked in saturated potassium chloride solution (KCl)
- A measurement was taken in a strong acid or base
- The next measurement must be very accurate

Calibration is performed using standard buffer solutions, i.e., liquids with a precisely known pH value (e.g. pH 4, 7, or 10). Depending on your needs and measurement range, you can choose between single-point, two-point, or multi-point calibration:

Single-point calibration

The device is calibrated with a single buffer solution, typically pH 7. This method is quick and easy, but is only suitable for measurements close to this specific pH value. It is less accurate for acidic or alkaline measurements.

Two-point calibration

The device is calibrated with two buffer solutions, typically pH 7 and either pH 4 (acidic) or pH 10 (alkaline), depending on the measurement range. This ensures more accurate results over a wider pH range. This is recommended for most users.

Multi-point calibration (three or more points)

Uses three or more buffer solutions (e.g. pH 4, 7, and 10). This offers highest accuracy, especially when measuring a wide pH range.

NOTICE:

Preset buffer standards according to DIN, NIST, and JIS are available and can be selected directly in the app. In addition, user-defined buffer sets can be added. The app provides ATC (Automatic Temperature Compensation) for calibration.

How to Perform a Sample Measurement

Fill the sample well to cover the sensor and diaphragm. A minimum sample volume of 0.5 ml is required for proper operation.

NOTICE:

- > For best measurement performance, ensure that the sample temperature does not deviate significantly from the ambient temperature. When measuring hot/cold samples, allow the sample well temperature to equilibrate. Depending on the temperature difference between the sample liquid and the device, this may take only a few seconds or up to a minute.
- > Prior to each measurement, ensure that the sample well is clean and dry.
- > Use plastic syringes or pipettes to apply the samples. Metal devices or other hard subjects (e.g. spoons, tweezers) may scratch the sensor and diaphragm, causing permanent damage to your device.
- > Sample containing dissolved CO₂ and particles can lead to invalid measurement results. Degas and filtrate your sample carefully before measurement.

How to Store pH2Go

For proper storage, place a few drops of pH 7 buffer solution into the sample well, and close the device with the protection cap. This ensures the sensor and diaphragm remains hydrated and maintains optimal performance over time. Make sure to store the device at ambient temperatures.

NOTICE:

- If crystals from the storage solution appear in the sample well, rinse it with warm water until they dissolve; do not use detergents or abrasive tools.

How to Perform a Revitalization of pH2Go

Revitalizing pH2Go is an important step in regenerating the diaphragm. Over time, the device's performance can deteriorate due to deposits or drying out of the diaphragm, e.g. due to incorrect storage. Regular revitalization contributes to accurate and reliable pH measurements.

We recommend revitalizing your device if you notice slower response times, fluctuating readings, or after extended dry storage for more than 2 days.

- > Before beginning the revitalization process, ensure the device is properly cleaned.
- > For optimal results, it is important to use a saturated potassium chloride (KCl) solution at room temperature.
- > Use a freshly prepared saturated KCl solution or alternatively, a commercially available 3 mol/l KCl solution.

TIP:

To prepare a saturated KCl solution dissolve approx. 38 g of KCl granules in 100 ml of distilled water. Stir the mixture thoroughly. Let the solution sit for two hours until completely saturated. Carefully transfer the clear portion of the solution into a clean container, avoiding any undissolved residue.

- > Pipette the clear saturated KCl solution into the sample well of the device.
- > Ensure the sample well is completely filled.
- > Let the solution stand in the sample well for at least 20 minutes.
- > After revitalization, you can gently rinse the sample well with distilled water and calibrate the device before taking the next measurement.

How to Exchange the Batteries

For proper battery handling, **observe the safety instructions**. The battery status of the device is indicated in the app. When the batteries are depleted, the device switches off by itself. If the app indicates a low battery or the device does not switch on it is advised to replace the batteries. Use only batteries type AAA 1.5 V.

- > Unscrew the bottom cover of the device using an Allen key (2 mm, 5/6 in).
- > Remove the empty batteries.
- > Insert the fresh batteries with the correct orientation.
- > Reattach the bottom cover and tighten the screws firmly.

NOTICE:

Ensure that the screws are tightened properly so that no liquid can get inside. Do not overtighten the screws. Using excessive force may permanently damage your device. After replacing the batteries, be sure to only use the original screws to fix the battery compartment cover. Consider the polarity of the batteries when you insert them in the battery compartment. Insert only equally charged batteries of the same type.

When replacing the batteries, check if the O-ring between the bottom and the top cover is not damaged and in place. Make sure to use the original screws that include an O-ring.

Technical Data

Measurement specifications

Sensor	Glass-free ISFET (Ion Sensitive Field Effect Transistor) semiconductor
Sample volume	0.5 ml
Measuring range	pH 0 to 14
Accuracy	±0.02 pH
Resolution	±0.01 pH
Calibration	1-, 2-, 3- and 5-point calibration
Automated temperature compensation (ATC)	Yes
Buffer types	DIN, NIST, JIS, custom buffer sets
Electrolyte solution	gelled KCl
Diaphragm	porous PTFE
Temperature sensor	NTC (Negative Temperature Coefficient)
Temperature accuracy	1 %
Temperature resolution	0.1 °C (0.1 °F)
Sample temperature range	0 °C to 80 °C (32 °F to 176 °F)
Use	Indoor and Outdoor

Device specifications

Dimensions (L x W x H)	108 x 64 x 35 mm (4.3 in x 2.5 in 1.4 in)
Weight (incl. batteries)	125 g
Power supply	2x AAA 1.5V batteries
Enclosure rating	IP67 according IEC 60529

Operating conditions

Ambient temperature	10 °C to 40 °C
Air humidity	5% to 95% Rh, non-condensing
Battery lifetime	Approx. 10 000 measurements
Storage temperature	10 °C to 40 °C (50 °F to 104 °F)
Interface	Bluetooth™ Low Energy
Frequency band	2402 MHz to 2480 MHz
Transmitter power	-12 dBm

Wetted parts

Part	Material
Sample well	PSU
Diaphragm	Porous PTFE
Sensor	ISFET
O-ring	FKM
Housing	Flame retardant PBT/PC, UL94-V0

Supplier's Declaration of Conformity

Supplier's declaration of Conformity

47 CFR § 2.1077 Compliance Information



Unique Identifier: pH2Go, P/N 389554

Responsible Party – U.S. Contact Information

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Test report: Intertek 2257182KAU-010 (Issue Date 29.10.2025)

FCC Compliance Statement (e.g., products subject to Part 15)

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Signed by:

40B529F6453A448

Mr. Reinhard Eberl
Executive Director The Americas
Anton Paar USA Inc.

Bluetooth Regulations – Supplier's Declaration of Conformity

USA

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Canada

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication. Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir

le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

CAN ICES-003(B) / NMB-003(B)

Warranty and Returns

The warranty covers electrical and mechanical defects and is valid for 1 year from the date of purchase. The warranty excludes user-caused damage to the device, such as a scratched pH sensor or damaged diaphragm. In case of a warranty claim, contact the vendor of your device, who will take care of the necessary steps. The device must be cleaned before return.

