

User manual

AGRETO Temperature Probe

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1. Introduction

Thank you for choosing an Agreto Temperature Probe. You have got a robust tool for daily practice. Please read this manual carefully before operating the unit.

2. Scope of delivery

- 1 AGRETO Temperature probe 1,5 m with handle
- 1 Extension (only version 200 cm and 280 cm)
- 1 User manual

3. Intended use

The AGRETO temperature probe is used for temperature measurement for various stored goods (e.g. hay, straw, grain...) in the rural area by inserting the probe into the stored material.

To measure the temperature the probe must remain in this material until a constant temperature is displayed.

When using in wet materials, measure as quickly as possible and dry the probe immediately after the measurement.

User information:

- Store the device on a dry place at room temperature.
- Do not immerse the probe in water.
- Make sure that the lance is not tilted or bent during insertion. This is especially true for the long lances.
- When transporting make sure that no one is injured by the tip.

4. Security

4.1 Safety instructions for the buyer



IMPORTANT!

Make sure that each person who works for the first time with the probe, has read and understood this manual.



DANGER!

Make sure that the Agreto temperature probe is kept in a place that is not accessible by unauthorized persons.

4.2 Safety instructions for the operator



DANGER!

The Agreto temperature probe may only be operated by persons who are familiar with the operation of the device.



PRECAUTION!

Keep the work area clean! Soiled areas contributes to accidents.

4.3 Personal protective equipment



WARNING!

For people who work with the device, the wearing of safety gloves is required.



WARNING!

For people who work with the device, the wearing of safety shoes is required.

4.4 Residual hazards

Working with the device residual risks may arise for persons and objects that cannot be prevented by design or technical protection measures.



DANGER!

During the handling of the device there may be a risk of injuries because of the pointed measuring lance tip.



WARNING!

The Agreto temperature probe must not be operated in the area of live parts and wiring. There is a risk of electric shock!



WARNING!

The Agreto temperature probe must not be operated in explosive areas.

5. Technical Specifications

- Stable stainless steel handle and probe
- Probe diameter 16 mm
- 10 mm LCD-Display
- Temperature range: -50°C to +110°C
- Resolution of display 0,1 °C; Accuracy +/- 1 °C
- Sample rate: 10 s
- Power supply: 1 x LR44 battery

Version 100 cm probe

- Device dim.: 1.040x281x47 mm (LxWxH), Weight: 1.150 g

Version 150 cm probe

- Device dim.: 1540x281x47 mm (LxWxH), Weight: 1.430 g

Version 200 cm probe

- Device dim: 2040x281x47 mm (LxWxH), Weight: 1.820 g

Version 280 cm probe

- Device dim: 2840x281x47 mm (LxWxH), Weight: 2.360 g

6. Commissioning

For the two-piece versions with 200 or 280 cm length, the parts must be screwed together.

When handling the probe in not assembled condition, pay attention to the sensor cable.

Push the handle from the tip side over the probe and screw the handle with the thread.

If the temperature gauge is not at the desired angle you can turn it. To do so, press with the flat of your hand or with a non-slip glove on the temperature display and turn it to the desired position.

7. Working with the device



To carry out temperature measurements, proceed as follows:

- Insert the probe into the media to be measured. Hold the probe only at the handle and not at the display.
- The temperature profile is displayed continuously, but wait at least 5 minutes, until the final temperature is displayed.
- Note that the lance can warm up itself by repeatedly piercing. Allow it to cool down before you make further measurements.
- Repeat the measurement at different places to obtain a better overview of the situation in the medium.

8. Cleaning and maintenance

- Clean the tip of the instrument before the season and when visibly soiled with fine steel wool and / or alcohol.
- Store the device on a dry and secure place.

9. Troubleshooting

9.1 Weak LCD- display

For weak display replace the battery as follows:

- Press with the flat hand or with a non-slip glove on the front of the display, and twist the display by about 90 degrees. The digits on the display are then perpendicular to the handle.
- In this position, the temperature display can be lifted it out with a knife or small screwdriver. Pull out the cable just a few centimeters from the probe.
- Remove the battery cover on the back of the display.
- Change the battery, pay attention to the correct polarity of the battery.
- Close the battery cover.
- Press the cable as far as possible into the pipe to prevent cable pinching.
- Press the display back into the holder and rotate the display so that the numbers are horizontal to the handle.

Used batteries do not belong in household waste. Give them to special local collection point.

9.2 Wrong measurement values

If you think the displayed measurement values are not correct proceed as follows:

- For temperature measurements, note that the probe must remain in the material as long as the temperature display does not change.

9.3 Damages on the device

- Please contact the manufacturer or your dealer

10. Warranty

Over and above statutory warranty for AGRETO Temperature probe following warranty provisions apply :

- The AGRETO electronics GmbH guarantees the function and repairs or replaces all the parts that have a material or manufacturing damage within the warranty period.
- Warranty services will be performed by the AGRETO electronics GmbH.
- The decision on the existence of a warranty claim is sole responsibility of the AGRETO electronics GmbH.
- The warranty period begins with the first accounting to an end customer and ends 5 years from this date of invoice.
- Prerequisite for warranty service are the presentation of the original invoice and compliance with all elements of this instruction manual.
- Excluded from warranty are wear, normal wear and tear, damage due to misuse, negligence or accident.
- When processing a warranty claim transport costs incurred will be charged to the buyer.

11. Disposal



Dispose of the HFM II in the definitive shutdown or parts of environmentally friendly (metal to the respective metal scrap, plastic to plastic waste, etc. - Do not dispose as household waste!) Detailed information can be found in Directive 2002/96/EC

12. Imprint

All information, specifications and illustrations are as of 2019, subject to technical changes or design changes.

All information in this manual are supplied without liability despite careful preparation. A liability by the author is excluded.

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