



VOLTCRAFT 2620276 Temperature and Humidity Meter Instruction Manual

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VOLTCRAFT

Operating Instructions

HY-80TH Temperature & Humidity Meter

Item no: 2620276

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Introduction

Dear customer,

Thank you for purchasing this product.

If there are any technical questions, please contact: www.conrad.com/contact

Intended use

The product is a temperature and humidity meter that can be used to measure a variety of environmental conditions (e.g., dry bulb air temperature, wet bulb temperature, dew point, and relative humidity).

The product is intended for use in air only. Do not immerse the sensor in liquid.

Important:

The product has an IP54 ingress protection rating. It is resistant against light splashes of water. Do not submerge. If you use the product for purposes other than those described, the product may be damaged.

Improper use can result in short circuits, fires, or other hazards.

The product complies with the statutory national and European requirements.

For safety and approval purposes, you must not rebuild and/or modify the product.

Read the operating instructions carefully and store them in a safe place. Make this product available to third parties only together with the operating instructions.

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Delivery contents

- Product
- 3x AAA 1.5 V batteries
- Carry bag
- Operating instructions

Operating Instructions for download



<http://www.conrad.com/downloads>

Use the link www.conrad.com/downloads (alternatively scan the QR code) to download the complete operating instructions (or new/current versions if available).

Follow the instructions on the web page.

Description of symbols



The symbol warns of hazards that can lead to personal injury.

Safety instructions



Read the operating instructions carefully and especially observe the safety information. If you do not follow the safety instructions and information on proper handling, we assume no liability for any resulting personal injury or damage to property. Such cases will invalidate the warranty/guarantee.

6.1 General

- The product is not a toy. Keep it out of the reach of children and pets.
- Do not leave packaging material lying around carelessly. This may become dangerous playing material for children.
- If you have questions which remain unanswered by this information product, contact our technical support service or other technical personnel.
- Maintenance, modifications and repairs must only be completed by a technician or an authorised repair centre.

6.2 Handling

- Handle the product carefully. Jolts, impacts or a fall even from a low height can damage the product.

6.3 Operating environment

- Do not place the product under any mechanical stress.
- Protect the appliance from extreme temperatures, strong jolts, flammable gases, steam and solvents.
- Protect the product from direct sunlight.

6.4 Operation

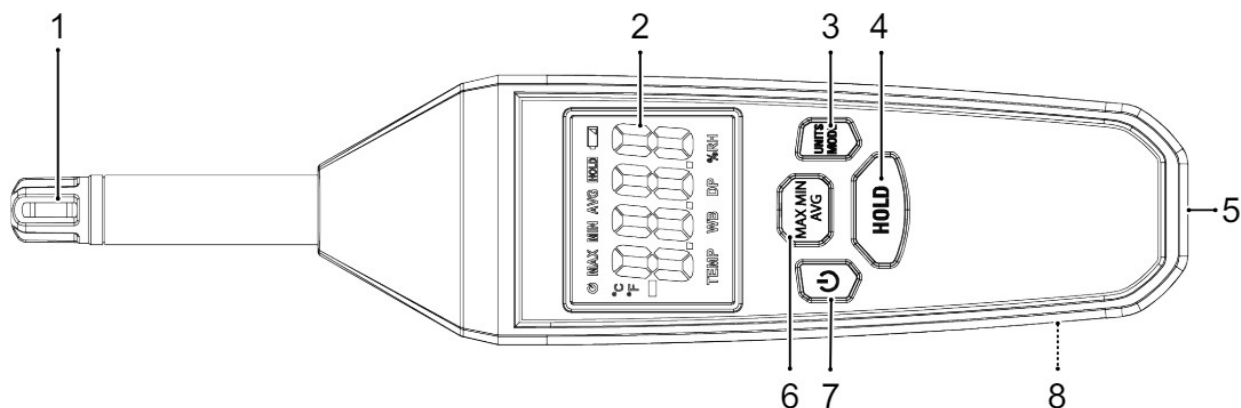
- Consult an expert when in doubt about the operation, safety or connection of the product.
- If it is no longer possible to operate the product safely, take it out of operation and protect it from any accidental use. DO NOT attempt to repair the product yourself. Safe operation can no longer be guaranteed if the product:
 - is visibly damaged,
 - is no longer working properly,
 - has been stored for extended periods in poor ambient conditions or
 - has been subjected to any serious transport-related stresses.

6.5 Batteries

- Correct polarity must be observed while inserting batteries.
- The batteries should be removed from the device if it is not used for a long period of time to avoid damage through leaking. Leaking or damaged batteries might cause acid burns when in contact with skin, therefore use suitable protective gloves to handle corrupted batteries.
- Batteries must be kept out of reach of children. Do not leave batteries lying around, as there is risk, that children or pets swallow them.
- All batteries should be replaced at the same time. Mixing old and new batteries in the device can lead to battery leakage and device damage.
- Batteries must not be dismantled, short-circuited or thrown into fire. Never recharge non-rechargeable batteries. There is a risk of explosion!

Overview

7.1 Product



1 Sensor tip	8 Battery compartment (rear)
3 UNIT MODE : button	2 Display
5 Tripod mount	4 HOLD : button
7 : ON / OFF button	6 MAX MIN AVG : button

7.2 Display symbols

Symbol	Description
	Display hold active.
	Auto shut-off active.
	Low battery indicator.
MAX	Maximum value is held.
MIN	Minimum value is held.
AVG	Average value is displayed.
°C	Degrees centigrade.
°F	Degrees Fahrenheit.
TEMP	Ambient temperature.
WB	Wet bulb temperature.
DP	Dew point temperature.
%RH	Relative humidity.
OL	Measurement is out of range.
	Minus sign.

Taking measurements


1. Press and hold the button to switch the power ON.
2. Select a measurement mode. See section: Measurement modes [►19].
3. Wait a few moments for readings to stabilize.

4. When finished, press and hold the  button to switch the power OFF.

Settings

9.1 Auto shut-off

Notes:


- Auto shut-off is active by default, it is indicated by the “” symbol.
- This energy saving feature will shut power off after approximately 15 minutes of no activity.

To disable auto shut-off:

Preconditions:



The power is switched ON.

1. Press the **HOLD** button to switch display hold ON/OFF.
→ The “**HOLD**” symbol will appear when display hold is ON.
2. Short press the button to toggle auto shut-off ON/OFF.
→ The “” symbol will disappear when disabled.
3. Auto shut-off will reactivate after the power is switched OFF.

9.2 Display hold

Important:

- The display hold function freezes the display.
- The display hold should be switched OFF before taking measurements.

- Press the **HOLD** button to switch display hold ON/OFF.
- The “**HOLD**” symbol will appear when display hold is ON.

Note:

You cannot change settings when display “**HOLD**” is active.

9.3 MAX / MIN / AVG display

In this mode the display shows the “MIN” (minimum), “MAX” (maximum), or “AVG” (average) values measured.

- Press the MAX MIN AVG button repeatedly to toggle through modes: MAX → MIN → AVG.
- The display will show “MAX”, “MIN”, or “AVG” to indicate which mode is active.

9.4 Change temperature units

Press and hold the UNITS button to switch between “°C” and “°F” units of temperature measure.


9.5 Measurement modes

You can select different measurement modes such as “TEMP” (ambient temperature), “WB” (wet bulb temperature), “DP” (dew point temperature), and “%RH” (relative humidity).

- Press the MODE button repeatedly to toggle through modes: TEMP → WB → DP → %RH.
- The display will show “TEMP”, “WB”, “DP” or “%RH” to indicate which mode is active.

Replacing batteries

Note:

Replace the batteries when the low battery indicator  shows.

1. Use a cross-head screwdriver to remove the compartment cover screw.
2. Replace the batteries and match the polarity markings shown inside the compartment.
3. Replace the battery compartment cover taking care not to over-tighten the screw.

Cleaning and care

Important:

- Do not use aggressive cleaning agents, rubbing alcohol or other chemical solutions. They damage the housing and can cause the product to malfunction.
 - Do not immerse the product in water.
1. Clean the product with a dry, fibre-free cloth.

Disposal

12.1 Product



This symbol must appear on any electrical and electronic equipment placed on the EU market. This symbol indicates that this device should not be disposed of as unsorted municipal waste at the end of its service life.

Owners of WEEE (Waste from Electrical and Electronic Equipment) shall dispose of it separately from unsorted municipal waste. Spent batteries and accumulators, which are not enclosed by the WEEE, as well as lamps that can be removed from the WEEE in a non-destructive manner, must be removed by end users from the WEEE in a non-destructive manner before it is handed over to a collection point.

Distributors of electrical and electronic equipment are legally obliged to provide free take-back of waste. Conrad provides the following return options free of charge (more details on our website):

- in our Conrad offices
- at the Conrad collection points
- at the collection points of public waste management authorities or the collection points set up by manufacturers or distributors within the meaning of the ElektroG

End users are responsible for deleting personal data from the WEEE to be disposed of.

It should be noted that different obligations about the return or recycling of WEEE may apply in countries outside of Germany.

12.2 (Rechargeable) batteries

Remove batteries/rechargeable batteries, if any, and dispose of them separately from the product. According to the Battery Directive, end users are legally obliged to return all spent batteries/rechargeable batteries; they must

not be disposed of in the normal household waste.



Batteries/rechargeable batteries containing hazardous substances are labelled with this symbol to indicate that disposal in household waste is forbidden. The abbreviations for heavy metals in batteries are: Cd = Cadmium, Hg = Mercury, Pb = Lead (name on (rechargeable) batteries, e.g. below the trash icon on the left).

Used (rechargeable) batteries can be returned to collection points in your municipality, our stores or wherever (rechargeable) batteries are sold. You thus fulfil your statutory obligations and contribute to environmental protection.

Batteries/rechargeable batteries that are disposed of should be protected against short circuit and their exposed terminals should be covered completely with insulating tape before disposal. Even empty batteries/rechargeable batteries can contain residual energy that may cause them to swell, burst, catch fire or explode in the event of a short circuit.

Technical data

Power supply	3x AAA 1.5 V batteries
Auto shut-off	15 mins
Ingress protection	IP54
Resolution	RH: 0.1 %, °C/°F: 0.1°
Air temperature range	-20 to +80 °C
Air temperature accuracy	±0.5 °C (0 to +40 °C) ±1 °C (-20 to 0 °C & +40 to +80 °C)
Humidity range	0 to 100 % RH
Humidity accuracy (at 25 °C)	±3 % (20 – 80 %) RH ±5 % (0 – 20 % & 80 – 100 %) RH
Response time (%RH)	10 sec (90 % @ +25 °C) in still air
Dew point range	-20 to +80 °C (-4 to +176 °F)
Wet bulb range	0 to +80 °C (-32 to +176 °F)
Operating altitude	≤2000 m
Operating conditions	0 °C to +50 °C
Storage conditions	-10 °C to +60 °C, <80 % RH (non-condensing)
Dimensions (W x H x D)	48 x 212 x 27 mm
Weight	approx. 126 g (without batteries)

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