

Greluma ZL684LUM

Greluma Mini Digital Thermometer Hygrometer User Manual

Model: ZL684LUM

1. PRODUCT OVERVIEW

The Greluma Mini Digital Thermometer Hygrometer is a compact and precise device designed to monitor both temperature and humidity in various indoor environments. Its small size allows for discreet placement, making it suitable for a wide range of applications.

Key Features:

- **Compact and Simple Design:** Small body and square shape for discreet placement.
- **Wide Measurement Range:** Measures temperature from -50°C to 70°C and humidity from 10% to 99% RH.
- **High Accuracy:** Temperature deviation of ±1°C and humidity deviation of ±5% RH.
- **Versatile Applications:** Ideal for use in homes, offices, cars, schools, hotels, laboratories, nurseries, aquaculture, instrument workshops, libraries, factories, greenhouses, humidors, guitar cases, and plant soil.



Image 1.1: Overview of the Greluma Mini Digital Thermometer Hygrometer units. Each unit displays both temperature in Celsius and humidity percentage.

2. SAFETY INFORMATION

Please read all safety instructions before using the device to ensure proper operation and to prevent damage or injury.

- Do not expose the device to extreme temperatures outside its specified operating range (-50°C to 70°C).
- Avoid exposing the device to direct sunlight for prolonged periods, as this may affect accuracy and display longevity.
- Keep the device away from water or high moisture environments unless specifically designed for such conditions. This model is for indoor humidity monitoring.
- Do not attempt to disassemble or modify the device. This will void the warranty and may cause damage.
- Keep batteries out of reach of children. If swallowed, seek immediate medical attention.
- Dispose of used batteries according to local regulations. Do not dispose of batteries in fire.

3. PACKAGE CONTENTS

Upon opening the package, please verify that all items are present and in good condition:

- 10 x Greluma Mini Digital Thermometer Hygrometers

Note: AG13 (LR44) button batteries are **not included** and must be purchased separately.

4. SETUP

To begin using your Greluma Mini Digital Thermometer Hygrometer, you will need to install the batteries.

1. Locate the battery compartment on the back of the device.
2. Gently slide open the battery cover.
3. Insert two AG13 (LR44) button batteries into the compartment, ensuring the correct polarity (+/-) as indicated inside the compartment.
4. Close the battery cover securely. The display should immediately show temperature and humidity readings.

LR44 battery not included
LR44 Akku nicht im Lieferumfang enthalten
Batteria LR44 non inclusa
Batterie lr44 non incluse
Las baterías LR44 no están incluidas



KIND REMINDER!!!



Image 4.1: Battery installation for the Greluma Mini Digital Thermometer Hygrometer. Note that LR44 batteries are required and not included.

5. OPERATING INSTRUCTIONS

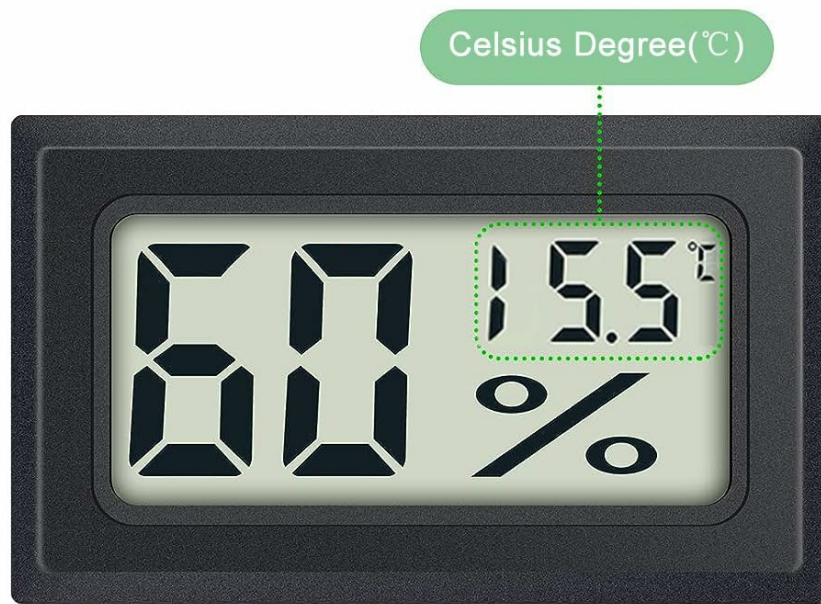
The Greluma Mini Digital Thermometer Hygrometer is designed for simple, continuous operation once batteries are installed.

Reading the Display:

- The large digits on the left side of the display indicate the current humidity level in percentage (%).
- The smaller digits on the right side of the display indicate the current temperature in Celsius (°C).

The device continuously monitors and updates the readings. No manual adjustments or calibration are typically required for standard use.

WIDE TEMPERATURE TEST



Temperature Measuring Range - 50°C – 70°C
Temperature Measurement Accuracy: $\pm 1^{\circ}\text{C}$

Image 5.1: Display showing temperature measurement range from -50°C to 70°C with an accuracy of $\pm 1^{\circ}\text{C}$.

HUMIDITY DISPLAY



Humidity Measuring Range 10%-99%RH
Humidity Measurement Accuracy: $\pm 2\%$ RH

Image 5.2: Display showing humidity measurement range from 10% to 99% RH with an accuracy of $\pm 5\%$ RH.

Applications:

These mini thermometer hygrometers are suitable for a variety of environments where monitoring temperature and humidity is beneficial:

- **Home & Office:** For general comfort and air quality monitoring.
- **Humidors:** To maintain optimal conditions for cigars.
- **Guitar Cases:** To protect musical instruments from humidity fluctuations.
- **Plant Soil & Greenhouses:** To ensure ideal growing conditions for plants.
- **Laboratories & Workshops:** For environmental control in sensitive areas.
- **Nurseries & Libraries:** To maintain suitable conditions for delicate items or sensitive environments.



For Humidor



Guitar Case



Plant Soil



Image 5.3: Examples of common applications including humidors, guitar cases, and plant soil monitoring.



Image 5.4: Further application examples such as in a laboratory setting, kitchen, plant nursery, and school environment.

6. MAINTENANCE AND CARE

Proper maintenance will ensure the longevity and accuracy of your device.

- **Cleaning:** Wipe the device gently with a soft, dry cloth. Do not use abrasive cleaners or immerse the device in water.
- **Battery Replacement:** When the display becomes dim or stops working, it's time to replace the batteries. Follow the steps in the "Setup" section to replace the two AG13 (LR44) button batteries.
- **Storage:** If storing the device for an extended period, remove the batteries to prevent leakage and corrosion. Store in a cool, dry place.

7. TROUBLESHOOTING

If you encounter any issues with your Greluma Mini Digital Thermometer Hygrometer, please refer to the following

common problems and solutions:

Problem	Possible Cause	Solution
Display is blank or dim.	Batteries are dead or incorrectly installed.	Replace batteries with new AG13 (LR44) button cells, ensuring correct polarity.
Readings appear inaccurate.	Device placed in an unsuitable environment (e.g., direct sunlight, near heat/cold sources, extreme drafts).	Relocate the device to a stable environment away from direct influences. Allow time for readings to stabilize.
Humidity reading stuck below 10%.	The device's lower measurement limit is 10% RH.	This is normal behavior. The device cannot display values below 10% RH.

8. SPECIFICATIONS

Parameter	Value
Brand	Greluma
Model Number	ZL684LUM
Product Dimensions (L x W x H)	20 x 14 x 1.6 cm (package of 10 units); approx. 48 x 29 x 16 mm (individual unit)
Weight	150 grams (total for 10 units)
Temperature Measurement Range	-50°C to 70°C
Temperature Accuracy	±1°C
Humidity Measurement Range	10% RH to 99% RH
Humidity Accuracy	±5% RH
Battery Type	AG13 (LR44) Button Battery (not included)
Country of Origin	China



Image 8.1: Detailed dimensions of a single Greluma Mini Digital Thermometer Hygrometer unit.

9. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the specific terms provided by your retailer or the manufacturer, Greluma. Keep your purchase receipt as proof of purchase.

If you have any questions or require assistance beyond the scope of this manual, please contact the seller directly through the platform where the product was purchased.

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and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

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Model number, symptoms, what you tried, or the section of the manual you are using.

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