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› GRAIGAR AZ8701 Pocket Digital Temperature Humidity Meter User Manual

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Model: AZ8701

1. INTRODUCTION

The GRAIGAR AZ8701 is a compact, pocket-sized digital temperature and humidity meter designed for accurate and quick environmental measurements. It features a dual LCD display for simultaneous readings of temperature and relative humidity, making it a versatile tool for various applications.



Figure 1: Front view of the GRAIGAR AZ8701 meter, showing the dual LCD display and control buttons.

Key Features:

- Simultaneous display of temperature and humidity on an easy-to-read dual LCD.
- Equipped with a capacitance polymer RH sensor for accurate and rapid readings.
- Includes a protective sensor cap.
- Functions for Data Hold, Minimum (MIN), and Maximum (MAX) value tracking.
- Convenient pocket size for portability.
- Low battery indication for timely battery replacement.
- Microprocessor circuitry ensures reliability.
- Supports automatic and manual calibration using 33% and 75% salt solutions.

2. SETUP

2.1. Battery Installation

The AZ8701 meter operates on two AAA batteries. Follow these steps to install or replace the batteries:

1. Locate the battery compartment cover on the back of the meter.
2. Slide the cover in the direction indicated by the "OPEN" arrow to remove it.



Figure 2: Back view of the AZ8701 meter, illustrating the battery compartment cover and belt clip.

3. Insert two AAA batteries, ensuring correct polarity (+ and -) as marked inside the compartment.
4. Replace the battery compartment cover by sliding it back until it clicks into place.

Note: Remove batteries if the device will not be used for an extended period to prevent leakage.

3. OPERATION

3.1. Power On/Off

- Press the **ON/OFF** button to power on the meter.
- Press and hold the **ON/OFF** button for approximately 2 seconds to power off the meter.

3.2. Taking Measurements

Once powered on, the meter will immediately begin displaying current temperature and relative humidity readings on its dual LCD. Ensure the sensor cap is removed for accurate measurements.



Figure 3: Angled view of the AZ8701 meter, highlighting the display and control buttons for operation.

3.3. Function Buttons

- **ON/OFF:** Powers the unit on or off.
- **HOLD:** Freezes the current readings on the display. Press again to release.
- **C/F:** Toggles the temperature unit between Celsius (°C) and Fahrenheit (°F).
- **RST:** Resets the MIN/MAX values.
- **MIN/MAX:** Displays the minimum or maximum temperature and humidity recorded since the last reset. Press repeatedly to cycle through MIN, MAX, and current readings.

3.4. Calibration

The AZ8701 supports automatic and manual calibration using 33% and 75% salt solutions. Refer to advanced user guides or contact support for detailed calibration procedures. Regular calibration ensures optimal accuracy.

4. MAINTENANCE

4.1. Sensor Protection

Always ensure the sensor cap is placed over the humidity sensor when the meter is not in use. This protects the sensitive capacitance polymer RH sensor from dust, debris, and physical damage, maintaining its accuracy and lifespan.

4.2. Cleaning

Wipe the meter's casing with a soft, damp cloth. Do not use abrasive cleaners or solvents. Avoid getting moisture into the sensor area or battery compartment.

4.3. Storage

When storing the meter for extended periods, remove the batteries. Store the device in a cool, dry place within the specified storage conditions:

- **Storage Temperature:** -20°C to 50°C (-4°F to 122°F)

- **Storage Relative Humidity:** Less than 90% RH

5. TROUBLESHOOTING

- **No Display / Meter Not Turning On:**

Check if the batteries are correctly installed with the proper polarity. Replace with fresh AAA batteries if necessary. Ensure the ON/OFF button is pressed firmly.

- **"LO BAT" Indication:**

This indicates low battery power. Replace both AAA batteries immediately to ensure accurate readings and continued operation.

- **Inaccurate Readings:**

Ensure the sensor cap is removed during measurement. Allow sufficient time (approx. 80 seconds) for the sensor to stabilize in a new environment. If readings remain consistently inaccurate, consider performing a calibration or contacting customer support.

- **Display Frozen:**

Check if the **HOLD** function is active. Press the **HOLD** button again to release the display.

6. SPECIFICATIONS

Parameter	Value
Temperature Range	-10°C to 50°C (14°F to 122°F)
Temperature Resolution	0.1°C, 0.1°F
Temperature Accuracy	±1°C
Humidity Range	5% to 95% RH
Humidity Resolution	0.1% RH
Humidity Accuracy	±4% RH (at 25°C)
RH Sensor Type	Capacitance
Response Time	80 Seconds Typical
Battery Life	>500 hours
Battery Type	AAA x 2 PCS
LCD Size	29(L) x 18(W) mm
Storage Temperature	-20°C to 50°C
Storage RH%	<90%
Meter Size	170(L) x 48.5(W) x 16.5(H) mm
Weight	~75g (without batteries)
Product Dimensions	16.99 x 4.85 x 1.65 cm
Manufacturer	Graigar

Model Number	AZ8701
UPC	707457447463