



# Temperature and Humidity Sensor Portable Addresser and Tester (PAT-4)

User Manual



Read this manual before using product. Failure to follow instructions and safety precautions can result in serious injury, death, or property damage. Keep manual for future reference.

Part Number: 900-00022 R0

Revised: March 2025

Original Instructions

# 1. Overview

The PAT-4 is a portable device for reading, addressing, and testing temperature and humidity sensors. It allows users to:

- Read sensor temperature and humidity values.
- Assign addresses to single or multiple sensors.



## CAUTION

- **Battery Safety:**
  - Do not expose the device to extreme heat or open flames.
  - Only use the recommended charging cable and power source.
  - If the battery is damaged or swollen, discontinue use immediately.
- **Electrical Safety:**
  - Do not charge the device in wet or damp conditions.
  - Disconnect from power if the device overheats or malfunctions.
- **Handling:**
  - Avoid dropping the device.
  - Do not attempt to open the device—there are no user-serviceable parts inside.
  - Avoid exposing the device to excessive moisture.

# 2. Functions

## LED Indicators



Indicator	Description
LOW BAT	Indicates low battery
EXT PWR	External power supply in use
CHARGING	Indicates device is charging
SINGLE	SINGLE Mode active
CHAIN	CHAIN Mode active
READ	READ Mode active

Indicator	Description
TEMP	Temperature reading
RH	Relative Humidity reading
SN	SN in HS4 mode. Version on HS5 mode
OK	Successfully completed task
ADDRESS	Address reading

## Modes

There are three operating Modes:

### READ Mode

- Sensor read.
- Reads target address.
- Displays temperature (°F to the nearest 9°F).
- Displays relative humidity (% to the nearest 5%).
- Used for identifying a faulty sensor, and test if a sensor is addressed correctly.

### SINGLE Mode

- Single sensor address
- Addresses the sensor displayed on the screen.

### CHAIN Mode

- Can address multiple sensors incrementally.
- After successful addressing, the target address increments to the next sensor.

# 3. Operating Instructions

## Turning ON

### Button

Briefly press the **ON/OFF** button once (for less than 1 second); The device powers on and briefly displays the firmware revision.



## Turning OFF

### Button

Long press the **ON/OFF** button until the screen displays **OFF**, then release.

#### Note

PAT-4 automatically powers off after being idle for at least 3 minutes.



## Changing MODE

### Button

#### READ, SINGLE, and CHAIN Modes

1. Briefly press the **MODE** button to loop through the three PAT-4 functions (READ, SINGLE, CHAIN). The three functions are indicated by the green LEDs.
2. Use the **UP** and **DOWN** buttons to change the target sensor address (SINGLE and CHAIN mode only).
3. Connect the sensor.



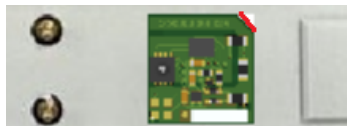
## Connecting the Sensor

### Button

Connect the sensor to the relevant (HS4 or HS5) pogo pin.

#### Note

Make sure the orientation of the sensor end is correct with the clipped corner on the top right.



## Switching Between HS4 and HS5 Modes

### Button

#### To switch from HS4 to HS5, or HS5 to HS4:

1. Press and hold the **ON/OFF** button for 4–6 seconds; the screen displays the target mode.
2. Release the button to confirm the new mode.



## Adjusting the Buzzer Volume

### Button

Low level buzzer volume displays as **buL**. High level buzzer volume displays as **buH**.

**To change from buL to buH, or buH to buL:**

1. Press and hold the **ON/OFF** button for 7–9 seconds; during the hold the screen displays HS4 or HS5 after 4–6 seconds. **Continue to hold.**
2. After 7–9 seconds the new buzzer volume displays (**buL** or **buH**). Release the button to confirm the new buzzer volume.



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## Charging the Device

Use the Micro USB cable on the bottom of the device for charging. Keep the device plugged in to the charger when not in use.

# 4. Maintenance and Troubleshooting

## Maintenance and Storage

To keep the PAT-4 in optimal condition:

- **Cleaning:** Wipe with a dry cloth; do not use liquids.
- **Storage:** Keep in a cool, dry place.
- **Battery Care:** If not used for long periods, charge the battery every 3 months to maintain performance.

## Troubleshooting

This section helps resolve common issues.

Problem: <b>Device Won't Turn On</b>	
Cause	Solution
Battery is depleted.	Charge the device using the Micro USB cable.

Problem: <b>No Sensor Reading</b>	
Cause	Solution
Sensor not connected.	Make sure the sensor is securely attached and properly oriented.

Problem: <b>Incorrect Temperature/Humidity Reading</b>	
Cause	Solution
Faulty sensor	<ul style="list-style-type: none"> <li>• Try a different sensor.</li> <li>• Move away from environmental extremes.</li> </ul>

# 5. Specifications

Specification	Details
Model	PAT-4 Rev, 6 or later
Power Source	Rechargeable battery / External power supply Battery Life:
Temperature Range	41°F–104°F (5°C–40°C)
Humidity Range	5%–95%
Measurement Accuracy	Temperature: °F to the nearest 9°F (-12°C). Humidity: to the nearest 5%
Storage Conditions	Store in a cool, dry place.
Dimensions	158 x 79x 25 mm
Compatible Sensors	HS4, HS5

## AGI SureTrack Support

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