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ETURBEV TA622A

User Manual for ETURBEV TA622A Digital Thermohygrometer

Model: TA622A

1. Introduction

The ETURBEV TA622A is a professional digital thermohygrometer designed for accurate measurement of ambient temperature, relative humidity, dew point temperature, and wet bulb temperature. This device is suitable for various applications requiring precise environmental monitoring. Please read this manual thoroughly before operating the device to ensure proper use and to maximize its lifespan.





Image of the ETURBEV TA622A Digital Thermohygrometer held in a hand, showcasing its compact size and ergonomic design. The device features a large digital display and multiple control buttons.

2. Key Features

- Simultaneous display of ambient temperature and relative humidity.
- Measurement of Dew Point Temperature (DP) and Wet Bulb Temperature (WB).
- High-definition VA color display with backlight for clear readings.
- Data Hold function to freeze current readings.
- MAX/MIN/AVG modes for recording extreme and average values.
- Switchable temperature units: Celsius (°C) and Fahrenheit (°F).
- Dual power supply modes: 3x AA batteries and USB power.
- Automatic Power Off (APO) after 15 minutes of inactivity (can be manually canceled).
- Stable and reliable signal transmission via four-pin aviation plug for external sensors.

3. Package Contents

Please check the package contents upon unboxing:

- ETURBEV TA622A Digital Thermohygrometer
- User Manual

- USB Cable (may vary by package)
- *Note: AA batteries are not included and must be purchased separately.*

4. Setup

4.1 Battery Installation

1. Locate the battery compartment on the back of the device.
2. Open the battery cover by sliding it down or unscrewing it, depending on the model.
3. Insert three (3) 1.5V AA batteries, ensuring correct polarity (+ and -).
4. Close the battery cover securely.



Image showing the rear of the ETURBEV TA622A, with the battery compartment open revealing slots for three AA batteries. A USB port is also visible, indicating dual power supply options.

4.2 Powering On/Off

Press the **Power** button (usually marked with a power symbol) to turn the device on. Press and hold the **Power** button again to turn it off.

4.3 USB Power Supply

The device can also be powered via a USB cable. Connect the USB cable to the device's USB port and to a compatible USB power source (e.g., computer, USB wall adapter). This mode is ideal for continuous monitoring without relying on battery power.

4.4 Sensor Connection

If your model includes an external sensor, connect it to the four-pin aviation plug port on the device. Ensure the connection is firm and secure for accurate readings.



Image detailing the four-pin aviation plug connector on the ETURBEV TA622A, designed for stable and reliable signal transmission from external sensors.

5. Operating Instructions

5.1 Basic Measurement

Upon powering on, the device will automatically display the current ambient temperature and relative humidity. Ensure the sensor is exposed to the environment you wish to measure.



Image illustrating the ETURBEV TA622A's digital display, showing readings for ambient temperature, relative humidity, and indicators for dew point (DP) and wet bulb (WP) temperatures. The image also highlights the °C/°F unit selection.

5.2 Switching Temperature Units (°C/°F)

Press the **°C/°F** button to toggle between Celsius and Fahrenheit temperature units.

5.3 Dew Point (DP) and Wet Bulb (WB) Measurement

Press the **DP WB** button to cycle through the display modes: Ambient Temperature/Humidity, Dew Point Temperature, and Wet Bulb Temperature. The corresponding indicator on the display will illuminate.

5.4 Data Hold Function

Press the **HOLD** button to freeze the current readings on the display. Press it again to release the hold function and resume live readings.

5.5 MAX/MIN/AVG Modes

Press the **MAX AVG MIN** button repeatedly to view the maximum, minimum, and average recorded values since the device was powered on or the function was reset. To reset these values, press and hold the button until the display clears or resets.

5.6 Backlight Control

The device features a backlight for improved visibility. The backlight typically activates automatically or can be toggled by a dedicated button (refer to device markings if available).



Close-up view of the ETURBEV TA622A's high-definition VA color display, showing detailed digital readouts. The display features a backlight for improved visibility in various lighting conditions.

5.7 Automatic Power Off (APO)

The device is equipped with an Automatic Power Off function to conserve battery life. If no button is pressed for approximately 15 minutes, the device will automatically shut down. To disable APO, refer to the specific instructions in your device's quick start guide or button combinations (e.g., holding a specific button during power-on).

6. Specifications

Parameter	Value
Model	TA622A
Brand	ETURBEV
Measurement Functions	Ambient Temperature, Relative Humidity, Dew Point Temperature, Wet Bulb Temperature
Temperature Range	(-40~80)°C / (-40~176)°F (Typical)
Humidity Range	(10~90)%RH (Typical)
Power Supply	3 x 1.5V AA Batteries or USB Power
Automatic Power Off	Approx. 15 minutes of inactivity
Display	VA High-Definition Color Display with Backlight
Package Dimensions	1.18 x 0.79 x 0.39 inches
Item Weight	1.76 ounces (50 Grams)
Assembly Required	No
Number of Pieces	1
Color	One Color (Red/Black)

7. Maintenance

7.1 Cleaning

Wipe the device with a soft, dry cloth. Do not use abrasive cleaners, solvents, or immerse the device in water. Keep the sensor area clean and free from dust or debris.

7.2 Storage

When not in use for extended periods, remove the batteries to prevent leakage. Store the device in a cool, dry place, away from direct sunlight and extreme temperatures.

7.3 Battery Replacement

Replace batteries when the low battery indicator appears on the display or when the device fails to power on. Always use new batteries of the specified type (3x 1.5V AA).

8. Troubleshooting

Problem	Possible Cause	Solution
Device does not power on	Dead or incorrectly installed batteries; No USB power.	Replace batteries, ensuring correct polarity. Check USB connection and power source.
Inaccurate readings	Sensor obstructed or dirty; Device not acclimatized; Extreme environmental conditions.	Clean the sensor. Allow device to stabilize in the environment for 15-30 minutes. Ensure operating within specified ranges.
Display is dim or blank	Low battery; Backlight off.	Replace batteries. Activate backlight if applicable.
Automatic Power Off too soon	APO function enabled.	This is a feature to save battery. If you need continuous operation, use USB power or check manual for APO disable instructions.

9. Warranty and Support

For warranty information, technical support, or service inquiries, please contact the manufacturer or your point of purchase. Keep your purchase receipt as proof of purchase for any warranty claims.
Manufacturer: ETURBEV

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