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ZIZEV TA622A

ZIZEV TA622A Dew Point Wet Bulb Tester User Manual

Model: TA622A | Brand: ZIZEV

Introduction

Thank you for choosing the ZIZEV TA622A Dew Point Wet Bulb Tester. This high-accuracy instrument is designed to provide precise measurements of ambient temperature, relative humidity, dew point temperature, and wet bulb temperature. Equipped with a Switzerland SHTC3 sensor, it offers rapid sampling and display updates, making it an essential tool for various industrial, construction, and environmental monitoring applications. This manual provides detailed instructions for the proper setup, operation, and maintenance of your device to ensure optimal performance and longevity.



Figure 1: Front view of the ZIZEV TA622A Dew Point Wet Bulb Tester, showing its LCD display and control buttons.

Key Features

- **High Accuracy Sensor:** Utilizes a Switzerland SHTC3 high-accuracy temperature and humidity sensor for reliable readings.
- **Rapid Response:** Features a sampling rate of 10 times per second and a display update speed of 3 times per second for quick environmental assessment.
- **Comprehensive Display:** LCD shows ambient temperature, ambient humidity, dew point temperature, and wet bulb temperature simultaneously.
- **Alarm Functionality:** User-configurable upper and lower alarm thresholds for temperature and humidity, with audible buzzer and flashing light alerts.
- **Portable Design:** Compact, lightweight, and ergonomic design for easy handling and transport.
- **Durable Construction:** Made from high-quality ABS and LCD materials, ensuring wear resistance and adaptability to various environments.



Figure 2: Close-up view of the integrated Switzerland SHTC3 sensor, highlighting its precision design.

Setup

1. Battery Installation

1. Locate the battery compartment cover on the back of the device.
2. Slide or unclip the cover to open the compartment.
3. Insert three (3) 1.5V AA batteries, ensuring correct polarity (+/-) as indicated inside the compartment.
4. Close the battery compartment cover securely.

2. Initial Power On

After installing the batteries, press and hold the power button () located on the front panel to turn on the device. The LCD display will illuminate and show current environmental readings.



Figure 3: The TA622A tester alongside its protective carrying case, emphasizing portability.

Operating Instructions

1. Display Overview

The LCD display provides real-time data. The top line typically shows Relative Humidity (%RH) and the bottom line shows Ambient Temperature (°C/°F). Other indicators such as Dew Point (DP) and Wet Bulb (WB) will appear when selected.



Figure 4: Illuminated LCD display of the TA622A, showing clear readings even in low light conditions.

2. Button Functions

- **REC:** Press to start/stop data recording. The device can store up to 8000 data points.
- **(Power):** Press and hold to turn the device on or off.
- **°C/°F:** Press to switch between Celsius and Fahrenheit temperature units.
- **HOLD:** Press to freeze the current readings on the display. Press again to release.
- **MAX/AVG/MIN:** Cycles through maximum, average, and minimum recorded values.
- **MODE:** Used to navigate through different measurement modes or settings.
- **DP/WB (▲):** Press to display Dew Point or Wet Bulb temperature. Also functions as an up arrow for setting adjustments.
- **▼:** Functions as a down arrow for setting adjustments.

3. Setting Alarms

The TA622A allows you to set upper and lower alarm thresholds for both temperature and humidity. When a measurement exceeds or falls below the set threshold, the device will activate a buzzer alarm and a flashing alert light.

1. Press the **MODE** button repeatedly until the alarm setting interface appears.
2. Use the ▲ and ▼ buttons to adjust the desired upper and lower limits for temperature or humidity.
3. Press **MODE** again to confirm and save the settings.

Maintenance

1. Cleaning the Device

To maintain accuracy and longevity, keep the device clean. Wipe the exterior with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure the sensor area is free from dust and debris.

2. Battery Replacement

When the battery indicator on the LCD shows low power, replace all three AA batteries promptly to ensure continuous accurate operation. Refer to the "Battery Installation" section under Setup for instructions.

3. Storage

If the device will not be used for an extended period, remove the batteries to prevent leakage. Store the tester in a cool, dry place, ideally within its protective carrying case, away from direct sunlight and extreme temperatures.

Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	Batteries are dead or incorrectly installed.	Check battery polarity or replace with new batteries.
Inaccurate readings.	Sensor is dirty or obstructed; device is not in stable environment.	Clean the sensor area. Allow device to stabilize in the measurement environment for a few minutes.
Alarm constantly triggers.	Alarm thresholds are set too close to ambient conditions or incorrectly.	Adjust alarm thresholds to appropriate levels for your environment.
Display is dim or flickering.	Low battery power.	Replace batteries.

Specifications

Parameter	Value
Ambient Temperature Range	-40 to 80°C (-40 to 176°F)
Ambient Temperature Accuracy	±0.5°C, ±1°F
Relative Humidity Range	10~90%RH
Relative Humidity Accuracy	±3.0%RH

Parameter	Value
Wet Bulb Temperature Range	-40 to 80°C (-40 to 176°F)
Wet Bulb Temperature Accuracy	±0.4°C, ±1°F
Dew Point Temperature Range	-40 to 80°C (-40 to 176°F)
Dew Point Temperature Accuracy	±0.4°C, ±1°F
Sensor Type	Switzerland SHTC3
Sampling Rate	10 times/sec
Update Rate	3 times/sec
Data Storage	8000 strokes
Automatic Shutdown	15 minutes (can be manually shut down)
Operating Environment	-10~50°C, max 80% RH, indoor altitude
Storage Environment	-10~50°C, max 70% RH (remove battery)
Display Size	Approx. 53 x 44mm / 2.1 x 1.7in
Battery Type	3 x 1.5V AA battery (not included)
Material	ABS, LCD
Model Name	TA622A (Internal Model: ZIZEV4zb3txoukc)



Figure 5: Diagram illustrating the key dimensions of the TA622A device.

Warranty and Support

ZIZEV is committed to providing high-quality products. For any issues, questions, or support needs regarding your TA622A Dew Point Wet Bulb Tester, please refer to the contact information provided with your purchase or visit the official ZIZEV website. We strive to offer prompt and satisfactory solutions to our customers.

Please retain your purchase receipt for warranty claims. The warranty typically covers manufacturing defects under normal use conditions. Damage resulting from misuse, unauthorized repairs, or improper maintenance is not covered.

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