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GOYOJO GY1 Pro

GOYOJO GY1 Pro Water Activity Meter User Manual

Model: GY1 Pro | Brand: GOYOJO

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1. INTRODUCTION

The GOYOJO GY1 Pro Water Activity Meter is a precision instrument designed for measuring water activity (aw) in various food products. Water activity is a critical factor in determining food quality, safety, and shelf life. This device provides accurate and rapid measurements, making it suitable for applications in food processing, quality control, and research. The Pro version includes advanced data management features such as Bluetooth and USB connectivity for seamless data export and analysis.

PRECISION MATTERS!

TC-160A Water Activity Meter - $\pm 0.02aw$



Figure 1: The GOYOJO GY1 Pro Water Activity Meter, an essential tool for precise food moisture analysis.

2. KEY FEATURES

- **Pro Data Management:** Features Bluetooth app connectivity and USB PC software support for easy viewing, recording, and exporting of water activity readings.
- **High Accuracy:** Provides measurements with an impressive accuracy of $\pm 0.02 aw$, ideal for precise quality control.
- **Portable Design:** Lightweight and compact, allowing for convenient on-the-go measurements anytime, anywhere.
- **Clear Display:** An easy-to-read display simultaneously shows water activity (aw) and sample temperature for comprehensive data at a glance.
- **Fast Testing:** Delivers rapid measurements, completing tests in approximately 5 minutes, enhancing operational efficiency.
- **Multiple Output Options:** Supports both USB data cable for PC communication and Bluetooth for wireless data transfer.

SIMPLE & USER-FRIENDLY!

Easy Operation



Integration of sensor and reading



Easy to read, water activity and sample humidity are displayed together.



With automatic shutdown, manual shutdown function and undervoltage alarm indication function.



Optional "USB data line output" to communicate with PC.



Optional "Bluetooth Data Output" selection.



Figure 2: Overview of the GOYOJO GY1 Pro's user-friendly features, including integrated sensor and reading, clear display, automatic shutdown, and data output options.

3. SETUP

3.1 Unboxing and Initial Inspection

Carefully unpack the GOYOJO GY1 Pro Water Activity Meter and all its accessories from the carrying case. Verify that all components listed in the packing list are present and undamaged. These typically include the main unit, sample cups, and the instruction manual.

Video 1: This video demonstrates the unboxing process of the GY1 Water Activity Meter, showing how to access the device and its accessories from the carrying case.

3.2 Battery Installation

The device requires 2x1.5V AAA batteries (not included). Locate the battery compartment on the back of the unit, open it, and insert the batteries according to the polarity markings. Close the compartment securely.

3.3 Preparing Sample Cups

Ensure the sample cups are clean and dry before use. Fill a sample cup with the food product to be tested, making sure the sample is level and covers the bottom of the cup without overflowing. Avoid touching the sensor directly with your hands or the sample.

4. OPERATING INSTRUCTIONS

4.1 Powering On the Device

Press the power button to turn on the water activity meter. The display will illuminate, showing the current water activity and temperature readings.

4.2 Taking a Measurement

1. Place the prepared sample cup onto the sensor base of the meter. Ensure a snug fit to prevent ambient air from affecting the reading.
2. Press the 'Start' or 'Measure' button (refer to the device's specific button layout if different). The device will begin its 5-minute measurement cycle.
3. Wait for the measurement to complete. The display will show the final water activity (aw) and temperature values.
4. Record the readings as needed.

Video 2: This video illustrates the process of measuring water activity using the GY1 meter, demonstrating how to prepare a sample and obtain a reading.

4.3 Interpreting Readings

The water activity value (aw) ranges from 0 to 1.0. Lower aw values indicate less free water available for microbial growth, contributing to longer shelf life. Consult food safety guidelines for appropriate water activity levels for specific products.



Figure 3: The clear display of the GY1 Pro Water Activity Meter, showing both the water activity value and the sample temperature for comprehensive analysis.

5. DATA MANAGEMENT

The GOYOJO GY1 Pro offers versatile options for data transfer and management, including both Bluetooth and USB connectivity.

5.1 USB Data Export

Connect the meter to a PC using the provided USB data cable. Install the necessary PC software and drivers to enable data transfer. The software allows for real-time data viewing, recording, and exporting of measurements for detailed analysis and record-keeping.

Video 3: This video provides instructions on how to install the USB-232 driver for Windows Vista or Windows 7 systems, essential for USB data communication with the device.

5.2 Bluetooth Connectivity

The GY1 Pro can connect to a compatible mobile application via Bluetooth. This feature allows for wireless data transfer, enabling

users to monitor measurements, store data, and generate reports directly from their smartphone or tablet.



Figure 4: The GOYOJO GY1 Pro demonstrating seamless data transfer capabilities through both USB and Bluetooth connections to a computer.

6. MAINTENANCE

6.1 Cleaning the Device

Regularly clean the exterior of the meter with a soft, dry cloth. For the sensor area, use a soft, lint-free cloth and avoid abrasive materials or harsh chemicals. Ensure no moisture enters the device's internal components.

6.2 Sensor Care

The non-conductive humidity sensor is a delicate component. Avoid direct contact with the sensor surface. If the sensor becomes contaminated, gently clean it according to the specific instructions in the full product manual or contact customer support.

6.3 Storage

When not in use, store the water activity meter in its original carrying case in a cool, dry place, away from direct sunlight and

extreme temperatures. Remove batteries if the device will not be used for an extended period.



Figure 5: An illustration highlighting the importance of calibration, maintenance, and proper care for the long-term reliability of the water activity meter.

7. TROUBLESHOOTING

7.1 Common Issues and Solutions

- **Device not powering on:** Check battery installation and ensure batteries are fresh. Replace if necessary.
- **Inaccurate readings:** Ensure the sample cup is properly seated and the sensor is clean. Verify that the device is operating within the specified temperature and humidity conditions. Consider recalibration if issues persist.
- **Data transfer issues:** For USB, ensure drivers are correctly installed and the cable is securely connected. For Bluetooth, check device pairing and app connectivity.
- **Slow measurement:** Ensure the sample is properly prepared and the sensor is clean. The standard measurement time is 5 minutes.

If you encounter problems not listed here, please refer to the comprehensive product manual or contact GOYOJO customer support for assistance.

8. SPECIFICATIONS

Feature	Detail
Display	6-digit backlit LCD digital display, 3 digits for aw humidity, 3 digits for temperature display
Measurement Range	0-1.0aw
Resolution	±0.01aw
Accuracy	±0.02 aw
Sensor	Non-conductive humidity sensor
Measurement Speed	5 minutes
Operating Conditions	Temperature 0-50°C, Humidity <90%RH
Power Supply	2x1.5V AAA Size 7 Batteries (Not included)
Dimensions	148x65x65mm
Weight	235g (excluding batteries)

WORKS ON >>



Figure 6: The GY1 Pro Water Activity Meter is designed for versatile use across various settings, providing accurate humidity activity determination.

9. WARRANTY AND SUPPORT

The GOYOJO GY1 Pro Water Activity Meter comes with a standard manufacturer's warranty. For detailed information regarding warranty coverage, terms, and conditions, please refer to the warranty card included with your product or visit the official GOYOJO website.

For technical support, troubleshooting assistance, or service inquiries, please contact GOYOJO customer service through the contact information provided in your product packaging or on the official website. Please have your product model and purchase date available when contacting support.

