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Bonvoisin YLX-124

Bonvoisin Digital Hot Wire Anemometer with Thermometer User Manual

Model: YLX-124

1. Product Overview

The Bonvoisin Digital Hot Wire Anemometer is a versatile, handheld instrument designed for precise measurement of wind speed, airflow, and temperature. This device is equipped with a hot wire sensor for accurate readings and a thermometer for ambient temperature. It also calculates windchill, maximum, minimum, 2/3 maximum, and average wind speed and airflow. The unit is CE/FCC/ROHS certified, ensuring compliance with safety and environmental standards.



Image: The Bonvoisin Digital Hot Wire Anemometer, showing the main unit, flexible probe, and a protective carrying case.

Its compact, battery-operated design makes it suitable for various applications, including HVAC system analysis, environmental monitoring, and outdoor activities. The device features a backlit display for clear visibility in low-light conditions and a data output function for PC connectivity.



Image: A user measuring airflow at a construction site with the Bonvoisin Digital Hot Wire Anemometer, demonstrating a typical application.

2. Safety Information

- Read all instructions carefully before operating the device.
- Do not expose the device to extreme temperatures, humidity, or direct sunlight.
- Avoid strong impacts or dropping the device.
- Keep the probe tip clean and free from obstructions to ensure accurate measurements.
- Do not attempt to disassemble or modify the device, as this will void the warranty and may cause damage.
- Dispose of batteries according to local regulations.

3. Package Contents

Verify that all items are present upon unpacking:

- Bonvoisin Digital Hot Wire Anemometer Main Unit
- Telescopic Hot Wire Probe (with 1.08 m / 4.3 ft rod and 1 m / 3.3 ft cable)
- Protective Carrying Case
- USB Cable for PC connection
- User Manual (English)
- Service Card

Note: 4 AAA batteries are required for operation and are not included in the package.

4. Setup and Battery Installation

4.1 Battery Installation

1. Locate the battery compartment cover on the back of the main unit.
2. Open the cover by sliding or unscrewing it.
3. Insert 4 AAA batteries, ensuring correct polarity (+/-) as indicated inside the compartment.
4. Replace the battery compartment cover securely.

4.2 Probe Connection

Connect the cable of the telescopic hot wire probe to the designated port on the main anemometer unit. Ensure the connection is firm to prevent intermittent readings.

5. Operating Instructions

5.1 Power On/Off

- Press the **POWER** button to turn the device on.
- Press and hold the **POWER** button to turn the device off.
- The device will automatically turn off after 10 minutes of inactivity to conserve battery power.

5.2 Basic Measurements (Wind Speed, Airflow, Temperature)

Upon powering on, the device will display real-time wind speed, airflow, and temperature readings. The hot wire probe should be positioned in the airflow path for accurate measurement.

5.3 Unit Selection

- Press the **UNIT** button to cycle through wind speed units: m/s, km/h, ft/min, knots, mph.
- Press the **°C/°F** button to switch between Celsius and Fahrenheit for temperature readings.
- Press the **CFM/CMM** button to select between Cubic Feet per Minute (CFM) and Cubic Meters per Minute (CMM) for airflow measurements.

5.4 Backlight Function

- Press the **LIGHT** button to activate the display backlight.
- The backlight will automatically turn off after 7 seconds of no operation to save battery life.

5.5 Data Hold

- Press the **HOLD** button to freeze the current readings on the display.

- Press **HOLD** again to release the data hold and resume real-time measurements.

5.6 Advanced Measurements (MAX/MIN/AVG/Windchill)

- Press the **MAX/MIN** button to view the maximum or minimum recorded values during a measurement session.
- The device also supports 2/3 Max and average wind speed/airflow measurements. Refer to the on-screen indicators for these modes.
- Windchill measurements are automatically calculated and displayed when applicable.

5.7 Probe Usage

The anemometer features a telescopic rod that extends up to 1.08 meters (4.3 feet) and a flexible probe tip. This design allows for measurements in hard-to-reach areas, such as HVAC ducts or vents.

- Gently extend the telescopic rod to the desired length.
- The tip of the probe can be bent to direct the sensor into the airflow path. Exercise caution to avoid damaging the hot wire sensor.
- Position the probe directly in the airflow for optimal accuracy.



Image: A user demonstrating the use of the extendable and bendable probe to measure airflow inside an HVAC system.

5.8 Data Recording and Output

The device can record up to 350 sets of measurement data. This data can be transferred to a PC for further analysis.

- Use the **REC** button to initiate or stop data recording.
- Connect the anemometer to a PC (Windows 7, XP, 10 compatible) using the provided USB cable.
- Specialized software is required to retrieve the recorded data and generate graphs. Please contact Bonvoisin customer support to obtain the necessary software.



Image: A screenshot of the data output software interface, showing recorded measurements and graphical representation on a computer screen, with the anemometer connected via USB.

6. Maintenance

- **Cleaning:** Wipe the device and probe with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** When not in use, store the anemometer in its protective carrying case in a cool, dry place, away from

direct sunlight and extreme temperatures.

- **Battery Replacement:** Replace batteries promptly when the low battery indicator appears on the display to ensure continuous accurate operation.

7. Troubleshooting

- **Device does not power on:** Check if batteries are installed correctly and have sufficient charge. Replace batteries if necessary.
- **Inaccurate readings:** Ensure the probe tip is clean and unobstructed. Verify that the probe is correctly positioned in the airflow. Check for stable environmental conditions.
- **Display is dim or blank:** Activate the backlight. If the issue persists, replace batteries.
- **Cannot connect to PC or retrieve data:** Ensure the USB cable is securely connected. Verify that the correct software is installed on your PC. Contact customer support for software assistance.

8. Specifications

Feature	Specification
Model	YLX-124
Measurement Functions	Wind Speed, Airflow (CFM/CMM), Temperature (°C/°F), Windchill, Max, Min, 2/3 Max, Average
Wind Speed Units	m/s, km/h, ft/min, knots, mph
Wind Speed Range	0-30 m/s, 0-5860 ft/min, 0-55 knots, 0-90 km/h, 0-65 mph
Wind Speed Accuracy	±3% ±0.1 m/s (or equivalent for other units)
Airflow Units	CFM (Cubic Feet per Minute), CMM (Cubic Meters per Minute)
Airflow Range	CFM: 0-999900, CMM: 0-999900
Temperature Units	Celsius (°C), Fahrenheit (°F)
Probe Type	Hot Wire, Telescopic and Bendable
Probe Length	Telescopic rod: 1.08 m (4.3 ft), Cable: 1 m (3.3 ft)
Data Storage	350 sets of data
Data Output	USB port for PC connection (Windows 7, XP, 10 compatible)
Display	Backlit LCD
Power Source	4 x AAA batteries (not included)
Auto Power Off	10 minutes of inactivity
Backlight Auto Off	7 seconds of inactivity
Certifications	CE/FCC/ROHS

Feature	Specification
Parcel Dimensions	35.5 x 17.1 x 6.8 cm
Weight	1.01 kg



Image: Detailed diagram illustrating the physical dimensions of the anemometer and its probe, along with tables for wind speed and airflow measurement ranges and accuracy.

9. Warranty and Support

Bonvoisin products are designed for reliability and performance. For warranty information, please refer to the service card included in your package.

If you require technical assistance, have questions about the software for data output, or need support for your Bonvoisin Digital Hot Wire Anemometer, please contact Bonvoisin customer support. Contact details can typically be found on the service card or the official Bonvoisin website.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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