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Youshiko YC9446

Youshiko XL YC9446 Weather Station User Manual

Model: YC9446 | Brand: Youshiko

1. INTRODUCTION

Thank you for choosing the Youshiko XL YC9446 Weather Station. This device is designed to provide you with accurate and comprehensive weather information for both indoor and outdoor environments. It features a radio-controlled clock for precise time synchronization, a multi-colour display, and various sensors to monitor temperature, humidity, and barometric pressure. This manual will guide you through the setup, operation, and maintenance of your new weather station.



Figure 1.1: Youshiko XL YC9446 Weather Station main display unit and wireless outdoor sensor.

2. PACKAGE CONTENTS

Please check the package contents to ensure all items are present:

- 1 x Youshiko XL YC9446 Main Display Unit
- 1 x Wireless Outdoor Sensor
- 1 x UK Power Supply
- 1 x User Manual (this document)



Figure 2.1: Overview of the weather station display and sensor, highlighting key features and dimensions.

3. SETUP

3.1 Powering the Main Unit

1. Connect the provided UK power supply to the DC 5V 1.2A input port on the back of the main display unit.
2. Plug the power supply into a wall outlet. The display will light up.
3. For continuous display operation, the power supply must be used. The unit also supports optional AA batteries (not included) for backup power.

3.2 Installing Batteries in the Wireless Sensor

1. Open the battery compartment on the back of the wireless outdoor sensor.
2. Insert 2 x AA batteries (not included) into the compartment, observing the correct polarity (+/-).
3. Close the battery compartment securely.



Figure 3.1: Back view of the main unit and wireless sensor, illustrating battery installation and power connection points.

3.3 Pairing the Wireless Sensor

The main unit and wireless sensor should automatically pair once both are powered on. If the outdoor temperature/humidity is not displayed, or if you are setting up additional sensors:

1. Ensure the sensor is within the 60m transmission range of the main unit.
2. Press and hold the 'CHANNEL' button on the main unit to initiate a search for the sensor.
3. On the wireless sensor, you may need to press the 'TX' button inside the battery compartment to send a signal.
4. The outdoor readings should appear on the main display. The unit supports up to 3 wireless sensors (additional sensors sold separately).

3.4 Radio Controlled Clock (RCC) Synchronization

The weather station features an automatic radio-controlled clock. For users in the UK and Ireland, the unit will attempt to synchronize with the MSF signal from Cumbria. For other European regions, it will attempt to synchronize with the DCF-77 signal from Mainflingen, Germany.

- Upon initial power-up, the unit will automatically search for the radio signal. This process may take several minutes or even hours depending on signal strength and location.
- During synchronization, the display may temporarily go dark. This is normal.
- Ensure the unit is placed away from electronic devices that may cause interference.
- The clock automatically adjusts for Spring/Autumn time changes and performs daily checks for accuracy.

RADIO CONTROL SYSTEMS

There are two signal types in Europe

MSF for UK and Ireland

For use within the UK and Ireland is MSF, transmitters are located in Cumbria (UK)

and

DCF-77 for rest of EU

For rest of Europe is (DCF-77) (EU) transmitters located in Mainflingen, about 25 km south-east of Frankfurt (Germany)

Please choose the right Radio control system for your location

For more information please see on the following links:

<http://www.npl.co.uk/science-technology/time-frequency/products-and-services/time/msf-radio-time-signal>

<http://en.wikipedia.org/wiki/DCF77>

Figure 3.2: Information on MSF (UK & Ireland) and DCF-77 (rest of EU) radio control systems for time synchronization.

4. OPERATING INSTRUCTIONS

4.1 Display Overview

The multi-colour display provides a wealth of information at a glance:

- **Indoor Readings:** Temperature (°C/°F) and humidity with comfort level indicator.
- **Outdoor Readings:** Temperature (°C/°F) and humidity.
- **Weather Forecast:** Animated icons indicating sunny, partially cloudy, cloudy, rainy, stormy, or snowfall conditions. The forecast function learns over time based on changes in temperature, humidity, and barometric pressure.
- **Time & Date:** Radio-controlled time (12/24h format), calendar, and weekday.
- **Barometric Pressure:** Current pressure readings and historical trend.
- **Sunrise/Sunset Times:** Displays local sunrise and sunset times (based on London for UK version). Note

that these times update periodically, not daily.

- **Moon Phase:** Current moon phase indication.

4.2 Adjusting Display Brightness

The display features multiple brightness modes to suit your preference and environment.

4 Brightness Mode & Display OFF



Figure 4.1: The weather station display offers four brightness modes and a display-off option.

4.3 USB Charging Port

The main display unit includes a USB port (Output: DC5V 1A) on its side, allowing you to charge your smartphone, tablet, or other USB-powered devices directly from the weather station.



Figure 4.2: The integrated USB socket allows convenient charging of your devices.

4.4 Alerts and Indicators

- **Indoor Comfort Level:** Indicated by a smiley face icon, showing comfort based on indoor temperature and humidity (3 levels).
- **Outdoor Temperature Alert:** You can set high and low temperature thresholds for the outdoor sensor. If the outdoor temperature exceeds these limits, an alert icon will flash, and the unit will beep five times per minute.
- **Ice Pre-Alert Function:** A buzzer alarm will sound when the outdoor temperature drops to between -1°C and $+1^{\circ}\text{C}$ (30.2°F to 37.1°F), indicating potential icy conditions.



Figure 4.3: Visual representations of the Ice Alert, Indoor Comfort Level, and Outdoor Temperature Alert features.

5. MAINTENANCE

- **Cleaning:** Wipe the display unit and sensor with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Battery Replacement:** Replace batteries in the wireless sensor when the low battery indicator appears on the main display. Ensure to use fresh AA batteries.
- **Sensor Placement:** For accurate outdoor readings, place the wireless sensor in a shaded, well-ventilated area, protected from direct sunlight and precipitation. Ensure it is within the 60m transmission range of the main unit.
- **Storage:** If storing the unit for an extended period, remove all batteries from both the main unit (if installed) and the wireless sensor to prevent leakage.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
No outdoor temperature/humidity reading.	Sensor not paired, out of range, or low battery.	Ensure sensor batteries are fresh. Move sensor closer to the main unit. Press 'CHANNEL' button on main unit to re-scan, and 'TX' button on sensor to re-transmit.
Time is incorrect or not updating.	Poor radio signal reception (MSF/DCF-77).	Place the main unit near a window, away from electronic interference. Allow sufficient time for synchronization (can take several hours).
Weather forecast seems inaccurate.	The unit is in its learning phase.	The weather station requires a period of 7-14 days to learn local barometric pressure patterns for accurate forecasting. Accuracy will improve over time.
Sunrise/Sunset times are not daily updated.	This model updates sunrise/sunset times periodically.	The YC9446 updates sunrise and sunset times every 4 to 9 days depending on location, not daily. This is normal operation for this model.
Display is dim or off.	Power supply disconnected or brightness set too low.	Ensure the power supply is securely connected. Adjust brightness using the appropriate button on the unit. If using only batteries, the display may be off to conserve power.

7. SPECIFICATIONS

- **Model:** YC9446
- **Indoor Temperature Range:** -10°C to 50°C (14°F to 122°F)
- **Outdoor Temperature Range:** -40°C to 70°C (-40°F to 158°F)
- **Temperature Accuracy:** ± 1°C
- **Humidity Range:** 20% to 95% RH
- **Humidity Accuracy:** ± 5%
- **Wireless Transmission Range:** Up to 60 meters (open area)
- **Frequency:** 433 MHz
- **Power Supply (Main Unit):** DC 5V 1.2A (included) or 3 x AA batteries (not included)
- **Power Supply (Sensor):** 2 x AA batteries (not included)
- **USB Output:** DC 5V 1A
- **Dimensions (Main Unit):** Approximately 22.5 cm (W) x 14.5 cm (H)
- **Dimensions (Sensor):** Approximately 4.9 cm (W) x 9.4 cm (H) x 2.5 cm (D)

8. WARRANTY AND SUPPORT

The Youshiko XL YC9446 Weather Station comes with a UK Warranty and dedicated after-sales support. For any technical assistance, troubleshooting not covered in this manual, or warranty claims, please contact Youshiko customer service.

Additionally, purchases are covered by a 30-day return policy. Please refer to your purchase documentation for specific terms and conditions.

For more information on Youshiko products, please visit the official Youshiko store on Amazon:

www.amazon.co.uk/youshiko