BRESSER 7002580

User Manual

Bresser 7002580 Weather Station with 5-in-1 Profisensor

Brand: BRESSER

Introduction

The Bresser 7002580 Weather Station with 5-in-1 Professional Sensor is a comprehensive system designed to provide accurate and real-time weather data. This compact device offers extensive information services, including outdoor and indoor temperature, humidity, wind speed, wind direction, and rainfall. It features a vibrant color display and Wi-Fi connectivity for online data sharing.

Image: The Bresser 7002580 Weather Station includes a main display unit and a multi-functional outdoor sensor.

Key features include:

- Sensor with 868 MHz frequency for high transmission range.
- Integrated Ice Storage Function for specific weather conditions.
- Displays outdoor/channel temperature (°C / °F) and humidity.
- High-quality construction for reliable performance.

Package Contents

Before proceeding with the setup, please ensure all components are present:

- Main Display Unit (Indoor Console)
- 5-in-1 Outdoor Sensor Unit (includes wind vane, anemometer, rain collector, thermo-hygrometer)
- Mounting Pole and Hardware
- Power Adapter for Main Display Unit

- User Manual (this document)

Note: 3 x AA batteries for the outdoor sensor and 1 x CR2035 button cell battery for the main display unit (for memory backup) are **not included** and must be purchased separately.

Setup

1. Battery Installation

Outdoor Sensor: Open the battery compartment on the outdoor sensor unit. Insert 3 x AA batteries, ensuring correct polarity (+/-). Close the compartment securely to protect against weather.
Main Display Unit: Insert 1 x CR2035 button cell battery into the designated slot, typically located at the back or bottom of the unit. This battery provides backup power for settings in case of a power outage. Connect the power adapter to the main display unit and plug it into a wall outlet. The display will illuminate.

2. Sensor Placement and Mounting

The outdoor sensor should be mounted in an open area, away from obstructions that could affect wind, rain, or temperature readings. Ideal placement is at least 3 meters (10 feet) above ground level. Ensure it is easily accessible for maintenance.
The sensor can be mounted on top of a pole, on the side of a structure, or directly onto a wooden post using the provided mounting hardware. Orient the wind direction vane correctly, typically pointing North, for accurate readings.

Image: The outdoor sensor unit can be mounted in various ways, including on a pole, on the side of a building, or on a wooden post, using the included brackets for secure installation.

3. Initial Pairing and Time Synchronization

Once powered, the main display unit will automatically attempt to connect with the outdoor sensor. This process may take a few minutes. Ensure both units are within range (up to 868 MHz frequency for high transmission range).
The weather station can synchronize its time via the internet if connected to Wi-Fi, or manually set. For manual time setting, refer to the detailed online manual from Bresser's website.

4. Wi-Fi Setup and Online Data Sharing

To enable online data sharing and access your weather data remotely, you need to connect the weather station to your Wi-Fi network and register with a compatible online weather service like Weathercloud.net or Wunderground.com.

1. **Register Online:** Create a free account on Weathercloud.net and/or Wunderground.com. Note down your Station ID and Key/Password from these services.
2. **Activate AP Mode:** On the main display unit, press and hold the designated Wi-Fi button (refer to the unit's back panel or buttons) for more than six seconds to activate Access Point (AP) mode. The display will indicate it's in AP mode.

3. **Connect via Device:** Using a smartphone or computer, connect to the Wi-Fi network broadcast by the weather station (it will typically appear as "WeatherStation_XXXX").
4. **Configure Settings:** Open a web browser and navigate to the IP address provided in the manual (e.g., 192.168.1.1). This will open the station's configuration page.
5. **Enter Wi-Fi Credentials:** Select your home Wi-Fi network from the list, enter its password, and input the Station ID and Key/Password obtained from Weathercloud/Wunderground.
6. **Save and Restart:** Save the settings. The weather station will restart and attempt to connect to your Wi-Fi network and the online services.

Important: The detailed steps for Wi-Fi configuration, including the specific button and IP address, are best found in the comprehensive manual available for download on the Bresser website.

Operating the Weather Station

Display Overview

The main display unit provides a clear, color-coded overview of current weather conditions. It typically shows:

- Indoor/Outdoor Temperature and Humidity
- Wind Speed and Direction
- Rainfall (daily, weekly, monthly)
- Barometric Pressure
- Weather Forecast Icons
- Time, Date, and Moon Phase
- "Feels Like" Temperature (Heat Index/Wind Chill)

Image: The main display unit features a crystal-clear color screen, presenting all weather data in an organized and easy-to-read format.

Navigating Data

Use the buttons on the front or side of the display unit to cycle through different data views, access historical records (MAX/MIN), or adjust settings. Common buttons include:

- **CHANNEL:** If you have additional sensors, this button cycles through their readings.
- **HISTORY:** Displays past weather data, such as hourly or daily records.
- **MAX/MIN:** Shows the maximum and minimum recorded values for various parameters over a period.

- **SET/MODE:** Used to enter settings mode or confirm selections.
- **UP/DOWN Arrows:** Used for navigation and adjusting values in settings.

Image: The display unit features intuitive buttons on the front for navigation and a rear panel with power input and a brightness switch.
The display brightness can often be adjusted using a switch or button on the back of the unit (e.g., High, Low, Off settings).

Maintenance

Regular maintenance ensures the longevity and accuracy of your weather station.

- **Cleaning the Outdoor Sensor:** Periodically inspect the rain collector for debris (leaves, insects) and clean it to ensure accurate rainfall measurements. The wind cups and wind vane should also be kept clear of obstructions. Use a soft, damp cloth for cleaning; avoid abrasive cleaners.
- **Battery Replacement:** Replace the AA batteries in the outdoor sensor annually, or when the low battery indicator appears on the main display unit. The CR2035 battery in the main unit typically lasts longer but should be replaced if settings are lost during power outages.

- **General Care:** Keep the main display unit clean and dry. Avoid exposing it to extreme temperatures or direct sunlight for prolonged periods.

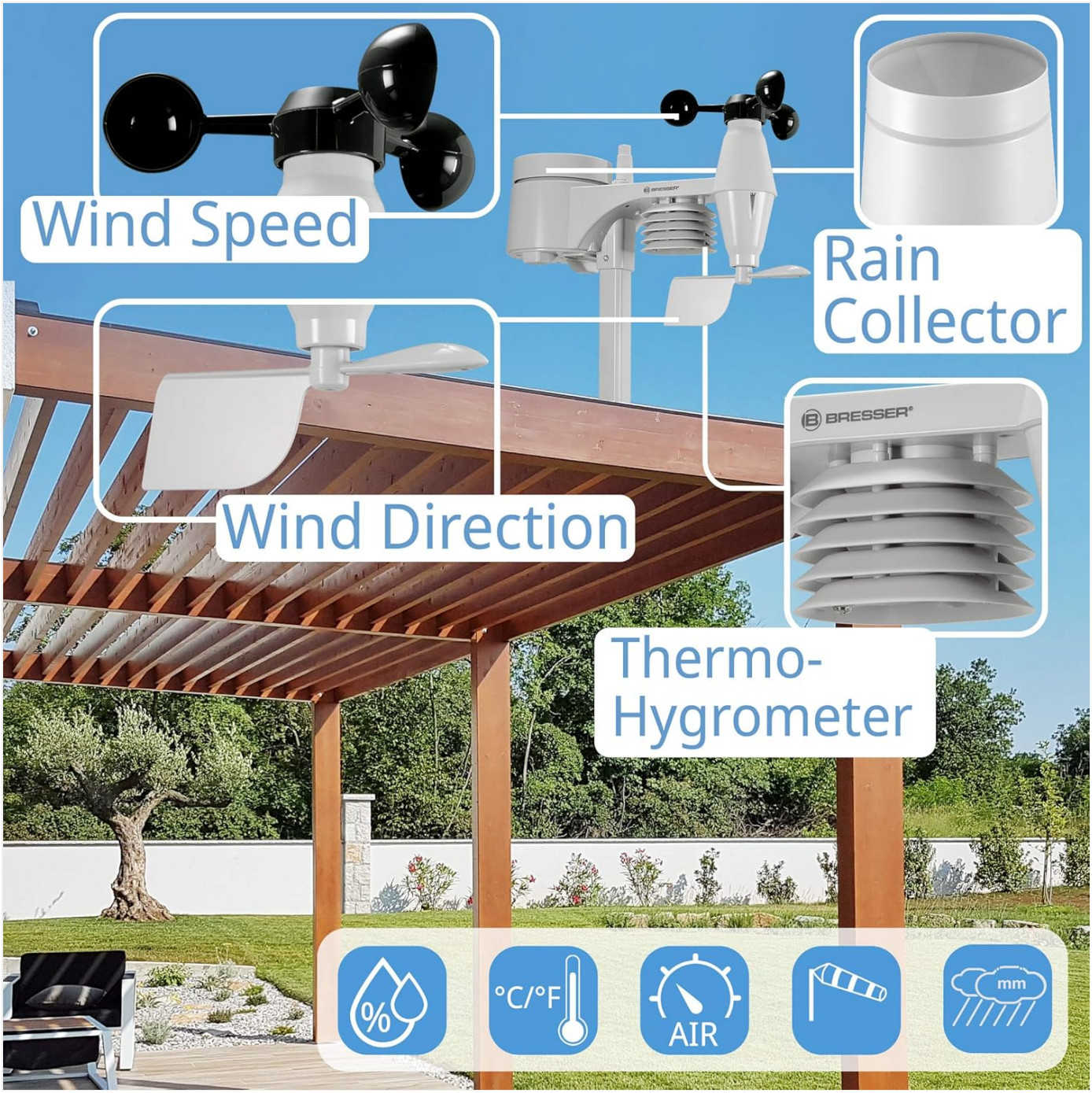

Image: The 5-in-1 outdoor sensor integrates components for measuring wind speed, wind direction, rainfall, and temperature/humidity, all requiring periodic inspection for debris.

Troubleshooting

Problem	Possible Cause / Solution
No outdoor sensor data on display.	Check if outdoor sensor batteries are correctly installed and not depleted. Ensure the outdoor sensor is within range of the main display unit. Re-pair the sensor by restarting both units (remove/reinsert batteries, unplug/replug power).

Problem	Possible Cause / Solution
Inaccurate readings (e.g., wind, rain).	Check for obstructions around the outdoor sensor (e.g., leaves in rain collector, spiderwebs on wind cups). Ensure the sensor is mounted level and the wind vane is correctly oriented. Advanced users may be able to apply calibration offsets via the Wi-Fi configuration interface (refer to online manual for details).
Wi-Fi connection issues.	Ensure your Wi-Fi network is 2.4 GHz (5 GHz networks are typically not supported). Verify Wi-Fi password and online service credentials (Station ID/Key). Re-activate AP mode by holding the Wi-Fi button for 6+ seconds and re-attempt configuration.
Display is dim or off.	Ensure the power adapter is securely connected and the outlet is functional. Check the brightness switch/button on the back of the unit.
Data loss during power failure.	Ensure the CR2035 backup battery is installed and functional. Note that while the backup battery retains settings, continuous data transmission requires main power.

Specifications

Feature	Detail
Model Number	7002580
Product Dimensions	38.8 x 15 x 28 cm; 1.8 kg
Material	Plastic
Power Source (Main Unit)	AC Adapter (included)
Batteries (Outdoor Sensor)	3 x AAA (not included)
Backup Battery (Main Unit)	1 x CR2035 (included)
Connectivity Technology	868MHz (sensor to display), Wi-Fi (for internet)
Special Features	Weekly Day Display, Moon Phases, Wi-Fi, Rain Probability, Snooze Function, Alarm Function, Internet Time, Max/Lowest Value Arm, Glass Warning, Weather Resistant, History Data Storage, Weather Forecast
Recommended Uses	Temperature measurement, Precipitation, Wind Speed, Wind Direction

Warranty and Support

BRESSER products are known for their quality and reliability. For detailed warranty information, including potential extended warranty options (e.g., 5-year extension upon product registration), please visit the official BRESSER website. For technical support, troubleshooting assistance beyond this manual, or spare parts, please contact BRESSER customer service directly. Contact details can typically be found on their official website or on the product packaging.
Manufacturer: Bresser GmbH
Website: www.bresser.de (or your regional Bresser website)