

BRESSER 7003520

Bresser WLAN 9-in-1 MeteoChamp HD Weather Station Instruction Manual

Model: 7003520



INTRODUCTION

The Bresser MeteoChamp HD 9-in-1 WLAN Weather Station provides comprehensive weather monitoring and environmental data. This manual guides you through the setup, operation, and maintenance of your weather station, ensuring accurate readings and optimal performance. The system includes a sophisticated multi-sensor with 9 different sensors and a high-resolution display for detailed data visualization.

KEY FEATURES

- Multi-sensor with solar power for precise measurement of temperature, humidity, wind speed, wind direction, and precipitation.
- High-resolution HD display with various display modes for detailed weather data at a glance.
- Air quality display with data on local pollutants such as PM2.5, NO2, SO2, and ozone for accurate environmental monitoring.
- Wi-Fi connectivity for automatic data storage, export, and transmission to weather platforms like ProWeatherLive and WeatherUnderground.
- Detailed 24-hour and 14-day weather forecasts including temperature, precipitation rate, and heat stress index.

PACKAGE CONTENTS

- Base Station (Display Console) with Power Adapter
- 9-in-1 Outdoor Multi-Sensor
- Instruction Manual

SETUP

1. Unpacking and Component Identification

Carefully remove all components from the packaging. Verify that all parts listed in the "Package Contents" section are present.



Image: Bresser MeteoChamp HD Weather Station showing both the indoor display unit and the outdoor multi-sensor.

2. Outdoor Multi-Sensor Installation

The 9-in-1 outdoor multi-sensor measures temperature, humidity, wind speed, wind direction, and precipitation. It is partially solar-powered and requires 3 AA batteries (not included) for backup power. Ensure the solar panel faces south (in the Northern Hemisphere) for optimal charging.

1. **Battery Installation:** Open the battery compartment on the outdoor sensor and insert 3 AA batteries, observing polarity.
2. **Mounting Location:** Choose an open location, free from obstructions, to ensure accurate wind and rain measurements. The sensor should be mounted securely on a pole or mast.
3. **Orientation:** Orient the wind direction sensor correctly, typically with the solar panel facing south. Consult the detailed instructions provided in the physical manual for precise orientation.



Image: Close-up of the Bresser MeteoChamp HD outdoor multi-sensor, highlighting the solar panel and various measurement components.

3. Base Station Setup

Connect the base station (display console) to the power adapter and plug it into an electrical outlet. The display will power on. It also has an internal battery to maintain data in case of power loss.



Image: The Bresser MeteoChamp HD indoor display unit positioned on a wall in a living space.

4. Wi-Fi Connection

The base station connects to your home Wi-Fi network to transmit data to online weather platforms and receive air quality information. Follow the on-screen prompts or refer to the detailed manual for Wi-Fi setup instructions. You may need to use an application like WSLink for initial connection.

- Access the Wi-Fi settings menu on the display.
- Select your network and enter the password.
- Once connected, the station will automatically begin transmitting data to configured online platforms (e.g., ProWeatherLive, WeatherUnderground).

OPERATING INSTRUCTIONS

1. Display Modes and Data Viewing

The HD display offers various modes to view detailed weather data. Use the buttons on the console to navigate through different screens, which may include:

- Current temperature (indoor/outdoor) and humidity.
- Wind speed and direction.
- Precipitation data (daily, weekly, monthly, yearly).
- Barometric pressure.
- Air Quality Index (AQI) and pollutant levels (PM2.5, PM10, NO2, SO2, O3, CO).
- Heat Stress Index (WBGT - Wet Bulb Globe Temperature).

- Historical graphs, data logs, channel overview, and max/min value displays.

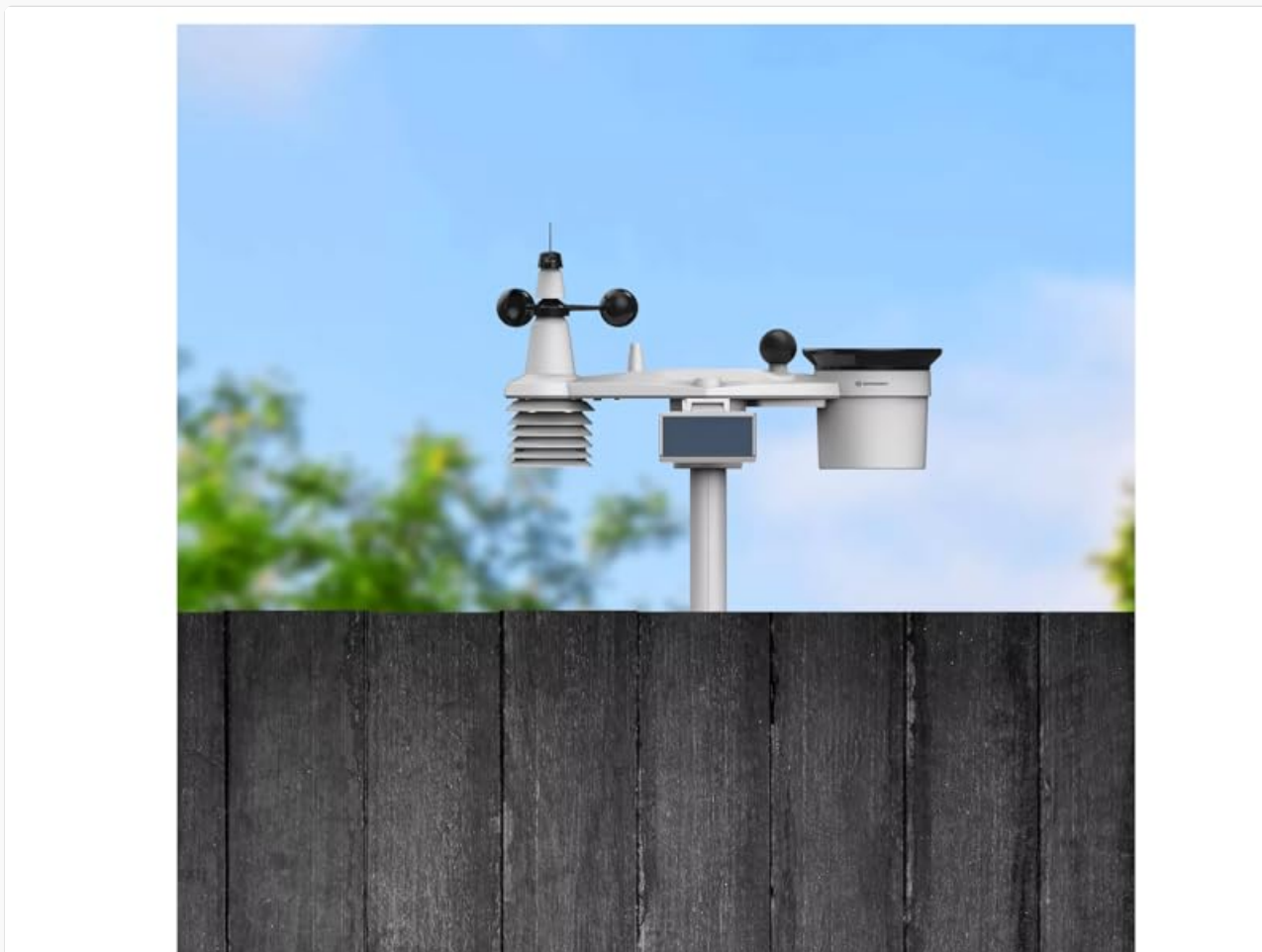


Image: Detailed view of the Bresser MeteoChamp HD display, illustrating the comprehensive weather and environmental data presented.

2. Weather Forecasts

The station provides detailed weather forecasts for the next 24 hours and up to 14 days, including temperature and precipitation probability. This information is crucial for planning outdoor activities.

3. Air Quality and Heat Stress Monitoring

Monitor local air quality with the AQI, which indicates the purity of the air. The Heat Stress Index (WBGT) helps assess environmental heat load, providing four alert levels to ensure safety during hot weather and intense activities.

4. Data Export

Data can be exported in CSV format to your PC for further analysis. Refer to the detailed manual for instructions on how to initiate data export.

5. Optional Sensors

The system supports optional thermo-hygroscopic sensors, water detectors, and additional air quality sensors (not included) to expand its monitoring capabilities.

MAINTENANCE

- **Outdoor Sensor Cleaning:** Periodically clean the outdoor multi-sensor, especially the rain collector and wind cups, to prevent debris buildup and ensure accurate readings. Use a soft, damp cloth.
- **Solar Panel:** Keep the solar panel on the outdoor sensor clean to ensure efficient charging.

- **Battery Replacement:** Replace the 3 AA batteries in the outdoor sensor annually or when indicated by the base station to ensure continuous operation, especially during periods of low sunlight.
- **Display Console:** Clean the display console with a soft, dry cloth. Avoid abrasive cleaners.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No data from outdoor sensor	Low batteries, sensor out of range, interference, sensor malfunction.	Replace batteries in outdoor sensor. Ensure sensor is within range of the base station. Check for obstructions. Try resetting the sensor and base station.
Inaccurate readings (wind, rain)	Improper mounting location, debris in sensors, calibration needed.	Relocate sensor to an open area. Clean rain collector and wind cups. Refer to manual for calibration procedures.
Wi-Fi connection issues	Incorrect password, network interference, router issues, station not configured.	Verify Wi-Fi password. Ensure station is within router range. Restart router. Reconfigure Wi-Fi settings on the station, possibly using WSLink.
Display not turning on	Power adapter disconnected, power outage.	Check power adapter connection. Ensure power outlet is functional.

SPECIFICATIONS

Feature	Detail
Model Number	7003520
Power Source (Outdoor Sensor)	Solar powered with 3 AA battery backup (batteries not included)
Power Source (Base Station)	AC Power Adapter, internal battery for memory retention
Connectivity Technology	Wi-Fi
Material	Plastic
Color	Black (Base Station), White (Outdoor Sensor)
Product Dimensions (Base Station)	14 x 19 x 1.9 cm (L x W x H)

Feature	Detail
Special Features	Day of week display, Max/Min value alarm, Large HD display, Beaufort index, Weather index, Max/Min memory, Moon phases, Weather platforms compatibility, Weather forecasts, Backlight, Smart features, Historical data storage.

WARRANTY AND SUPPORT

Bresser products are designed for durability and performance. For specific warranty information, please refer to the warranty card included with your product or visit the official Bresser website. Keep your purchase receipt as proof of purchase.

For technical support, replacement parts, or service inquiries, please contact Bresser customer service. Details can typically be found on the manufacturer's website or in the original product packaging.

Online Resources:

- Official Bresser Website: www.bresser.de (Please check for your regional website)
- ProWeatherLive: For advanced weather data and forecasts.
- WeatherUnderground: For sharing and accessing weather data.

