Wireless weather station Airbi HOME

Before use
- Read the following information very carefully.
- This manual will help you to get familiar with your new device, all its functions and parts, and advise you in case of problems with the device.
- By carefully reading and following the instructions contained in this manual, you will prevent damage or destruction of the instrument.
- We are not responsible for any damage to the instrument caused by failure to follow or misunderstanding the instructions contained in this manual.
- Pay attention to the **safety instructions**!
- Keep the manual for future reference.

Contents of the package
- Wireless weather station (base station).
- 3 outdoor temperature/humidity transmitters.
- USB cable.

Functions and features
- Temperature and humidity measurement with 3 wireless external sensors, max. range 100 m, trend indicators.
- Optional: waterproof temperature probes for the transmitters (sold separately).
- Measurement of indoor temperature and humidity.
- Weather forecast with atmospheric pressure trend indicator, pressure history, pressure bar chart.
- Comfort level indicator (smiley face).
- Radio-controlled clock with date and day of the week abbreviation (7 languages).
- Alarm clock with two alarm times and snooze function.
- Colour display with 3 brightness levels or back-light off.
- USB-C power supply.
- For hanging or standing.

Safety instructions
- This product is intended exclusively for the range of applications described above.

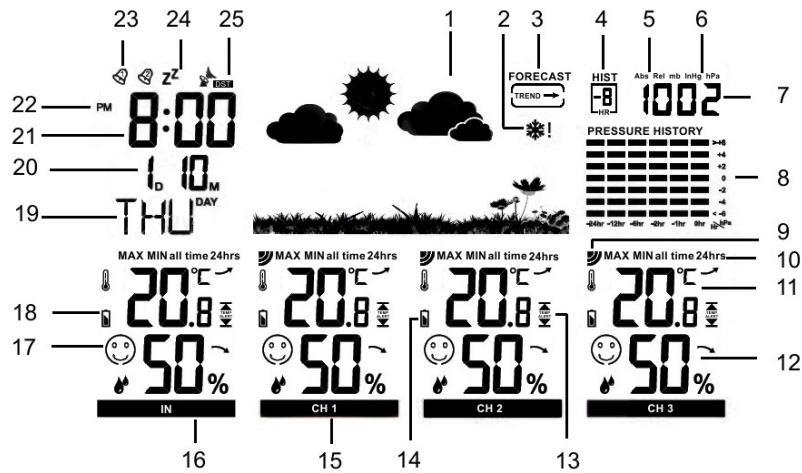**Attention! Risk of electric shock!**
- Connect the USB-C to USB-A cable only to a suitable and undamaged power source. You can use a computer or an appropriate power adapter. Only plug the adapter into a mains socket installed in accordance with the electrical safety regulations in your country and with the correct mains voltage (see rating plate).
- The mains socket must be located close to the device and must be easily accessible.
- If any malfunction occurs, disconnect the device from the mains immediately.
- The base station and USB cable must not come into contact with water or moisture. Suitable for indoor use only.
- Do not use the device if the cover, power source or power adapter is damaged.
- Keep the devices away from persons (including children) who may not be fully aware of the possible risks associated with handling electrical equipment.
- First connect the cable to the base station and then plug the power adapter into a power outlet.
- Do not pull the plug out of the socket by the cable.
- Route the mains cable so that it does not come into contact with sharp or hot objects.
- Keep instruments and batteries out of the reach of children.
- Small parts can be swallowed by children (under three years of age).
- Batteries contain harmful acids and can be dangerous if swallowed. Serious internal burns and death can occur within two hours if a battery is swallowed. If you suspect that a battery may have been swallowed or otherwise entered the body, seek medical attention immediately.
- Batteries must not be thrown into fire, short-circuited, disassembled or recharged. There is a risk of explosion!
- Drained batteries should be replaced as soon as possible to avoid damage due to leakage. Make sure the polarities are correct. Never use a combination of old and new batteries together, or batteries of different types.
- Remove the batteries if you will not be using the device for an extended period of time. Avoid contact with skin, eyes and mucous membranes when handling drained batteries.
- In case of contact, rinse the affected areas immediately with water and seek medical attention.

**Important information regarding the safe use of the product!**
- Do not place the device near sources of high temperature, vibration or shock.
- The base station is intended for indoor use only. Protect it from moisture.
- Outdoor sensors are protected only against splashing water, not waterproof. Only cable probes are waterproof. If you are not using them, please keep the cable probes connectors on the sensors closed with the attached rubber cover.

DESCRIPTION OF THE INSTRUMENT

Display:

1. Weather forecast
2. Frost alarm
3. Pressure trend indicator
4. Pressure history
5. Absolute or relative pressure
6. Pressure unit
7. Pressure
8. Pressure bar chart
9. Transmitter signal symbol
10. Minimum–maximum values
11. Temperature with trend indicator
12. Humidity with trend indicator
13. Temperature alert

14. Weak battery symbol for outdoor sensor
15. Outdoor sensor channel
16. Indoor unit temperature/humidity
17. Comfort level
18. Weak battery symbol for indoor unit
19. Day of the week abbreviation
20. Date
21. Time
22. PM (only in 12 hour time format)
23. Alarm symbol
24. Snooze symbol
25. DCF symbol, daylight saving time icon (=DST)
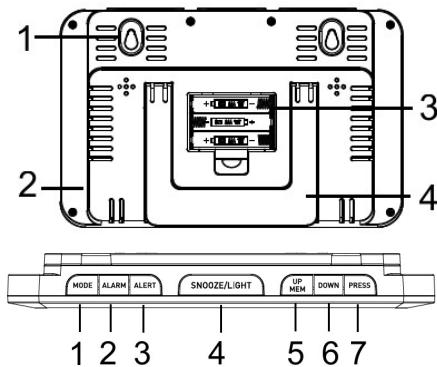
Back cover:

1. Wall mount holes
2. USB-C port
3. Battery compartment
4. Fold-out stand

Buttons:

1. **MODE** button	4. **SNOOZE/LIGHT** button
2. **ALARM** button	5. **UP/MEM** button
3. **ALERT** button	6. **DOWN** button
	7. **PRESS** button
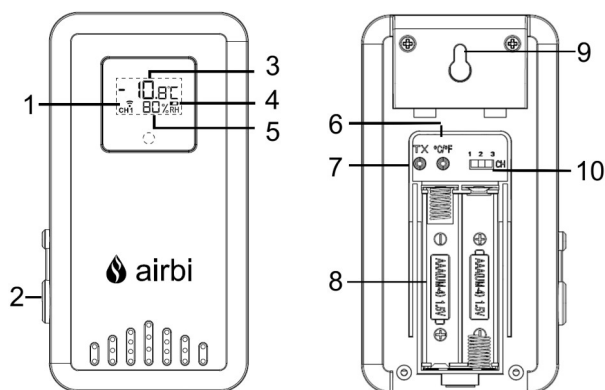
Wireless transmitters:

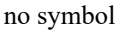|	
1. Channel, transmitting symbol	6. **°C/°F** button
2. Cable probe connector	7. **TX** button
3. Temperature	8. Battery compartment
4. Weak battery symbol	9. Wall mount hole
5. Humidity	10. **1, 2, 3 channel switch**

GETTING STARTED

- Place the device on a table with at least 1.5 m between the transmitters and the base. Avoid placing near potential sources of interference such as other electronic or wireless devices.
- Open the battery compartment of each transmitter.
- Set the switches inside the sensor battery compartment to channel 1, 2 and 3. Each sensor must be set to a different channel.
- Insert 2 new 1.5V AAA batteries with the correct polarity into the battery compartment of each sensor.
- Carefully close the battery compartment.
- Connect the base to the power source using the USB cable. All display segments will briefly light up and the base will beep.
- You can also insert 3 1.5 V AAA batteries into the base as a backup in case of power failure. Please observe the marked polarity.

TRANSMITTERS SIGNAL RECEPTION

- After the base station starts up, the search for the signal from the wireless sensors starts automatically. The transmitter signal symbols flash on the display. It takes 3 minutes to receive the signal.
- If the signal from the external sensor is received successfully, the temperature and humidity data is displayed in sensor segment 1, 2 or 3. The transmitter signal symbol is permanently displayed (not flashing).
- If reception fails, then "--.-" will appear on the display. Check the batteries and repeat the procedure again if necessary. Also check for any nearby sources of interference.
- **Wireless transmission can be triggered manually.** Press the **DOWN** button to select the channel 1, 2 or 3. Press and hold the **DOWN** button. The signal reception symbol of the selected channel will flash and the station will try to pick up the signal from the sensor. To speed up signal reception, insert batteries into the sensor or press **TX** button in the sensor–transmitter will send a signal immediately and the base unit will ideally catch it.

RADIO CONTROLLED TIME (DCF) RECEPTION

- Once the base station has finished searching for transmitters, it will start looking for a DCF signal. The DCF symbol will flash.
- To reduce interference, the display back-light is switched off during DCF signal reception. The base station also does not respond to buttons, except for **SNOOZE/LIGHT** and the **UP/MEM** and **DOWN** buttons.
- If the DCF signal is successfully received within 2-7 minutes, the display will light up again and show the current time, date, and day of the week abbreviation. The display permanently shows the DCF symbol.
- If signal reception fails, the current time is not set on the display and the DCF symbol disappears completely.
- To manually start a new DCF signal search, press and hold the **UP/MEM** and **DOWN** buttons.
- If you are receiving a DCF signal but want to turn it off, press and hold the **UP/MEM** and **DOWN** buttons. This will interrupt the current signal search. The base station will attempt to search for a DCF signal again in the night.
- If you want to switch off the signal completely so that only the manually set time is permanently displayed, this could be done in the setting mode (see *Time, language, °C/°F and pressure unit settings*).
- **The following DCF signal reception symbol states may appear on the display:**

Icon status:	Meaning:
flashing	Base unit is trying to receive DCF radio controlled time signal.
solid	The DCF signal has been received and time is set.
no symbol	The DCF reception failed, or it didn't happen, or it is switched off. Base unit will display manually set time. If the DCF reception is switched on, base unit will try to receive DCF signal at 1:00, 2:00 etc.

- If signal reception is not disabled, the unit attempts to receive a DCF signal at 1:00, 2:00 and 3:00 each night. If reception fails, the indoor unit will try to receive the signal again at 4:00 and 5:00. (The time set on the indoor unit is critical for triggering the automatic DCF signal capture attempt.)
- If you are in a country where a DCF signal can be received but the time zone is different from the DCF time (Germany), you can set a different time zone on the station (see *Time, language, °C/°F and pressure unit settings*).
- The DCF signal also includes daylight saving time information. If the signal is successfully received and it is daylight saving time, the "DST" icon (daylight saving time symbol) will appear on the display.

Note on DCF reception

The radio-controlled clocks are set according to the time signal of the cesium atomic clock from the Institute of Physics and Technology in Braunschweig. The deviation of this precise atomic time is less than 1 second in 1 million years. The time is encoded and transmitted from Mainflingen near Frankfurt in the long-wave band (77.5 kHz) and has a range of about 1 500 km. Your radio-controlled clock receives this signal and decodes it into the exact time. The signal automatically takes into account astronomical time corrections (summer and winter or normal time), leap years and any date changes. The quality of the signal reception depends mainly on the geographical location. Normally, it is not a problem to receive the signal within 1500 km of Frankfurt.

However, pay attention to the following:
- The recommended distance from sources of interference (e.g. TV sets, computer monitors) is at least 1.5–2 m.
- In reinforced concrete rooms (e.g. basements) the received signal is naturally weaker. In extreme cases, place the unit close to a window.
- At night, reception is possible in most cases due to less frequent atmospheric disturbances.

CONTROL
- Press and hold the **UP/MEM** or **DOWN** button for faster setting.
- You can also exit the time setting or alarm setting modes by not pressing any buttons for a few seconds.

Back-light
- Battery powered: to switch on the short-term back-light for 5 seconds, press the **SNOOZE/LIGHT** button.
- Adapter power: press the button to set the back-light level (high, medium, low, off).
- Adapter power, night mode active: back-light level will automatically turn low in set time. It can be switched to high for 5 seconds by pressing the **SNOOZE/LIGHT** button.

Night mode settings
- Night mode automatically dims the display brightness during a set time period, usually at night. To set night mode, press and hold the **SNOOZE/LIGHT** button.
- "ON" or "OFF" flashes on the display. Use the **UP/MEM** or **DOWN** buttons to select whether night mode should be turned on or off. (The default setting is "OFF.")
- If you select "ON," the setting will continue. In the next steps, you will set the time when night mode should start (hours, minutes, default 6:00 pm.) and the time when it should end (hours, minutes, default 6:00 am.). Use the **UP/MEM** and **DOWN** buttons to set the desired value and press the **SNOOZE/LIGHT** button to move to the next value.

**Time, language, °C/°F and pressure unit settings**
- To start the setup mode, press and hold the **MODE** button for 3 seconds.
- The first set value (time zone: 00) will flash.
- Use the **UP/MEM** or **DOWN** buttons to set the desired value. Then press the **MODE** button to confirm the setting and move on to the next setting.
- The order of the set values is as follows:
  - Time zone (12/-12)
  - Time format (24 hours/12 hours)
  - Date format (DM or MD)
  - Year
  - Month
  - Day
  - Hours
  - Minutes
  - Temperature unit (°C or °F)
  - Atmospheric pressure unit (mb/hPa or inHg)
  - Language
  - DCF radio controlled time receiving (ON or OFF)

- If you set a 12-hour time format, from noon to midnight, "PM" will be displayed next to the time.
- In the settings, you can choose from the following languages: German (GER), English (ENG), Czech (CZE), Slovak (SLK), Polish (POL), Hungarian (HUN), Dutch (DUT).

Alarm clock settings
- The weather station also has an alarm clock function with two alarm times.
- To display the alarm time, briefly press the **MODE** button. The order of display is as follows: 1st alarm time, 2nd alarm time, current time.

- If you wish to switch on or off the alarm clock, press **ALARM** button. A single press will activate 1ˢᵗ alarm time ⏰, then ⏰ and at last both ⏰ + ⏰. If you press **ALARM** button again, both ⏰ + ⏰ will switch off. If the alarm clock is set on, the respective icon ⏰ or ⏰ will be on the display without flashing.
- To set the alarm time, press and hold **ALARM** button. Flashing icon will appear on the display. The hour number will be also flashing. Set the hours of the alarm time and press **ALARM** button. Minutes will be flashing. Set the minutes of the alarm time. After that, the 2nd alarm time icon ⏰ will be flashing on the display. Set the 2nd alarm time in the same way. Then press **ALARM** button to escape the alarm time setting mode.

Alarm ringing and snooze function
- If the alarm is on, the base unit will beep at the set alarm time.
- To turn off the alarm, press any button except **SNOOZE/LIGHT**.
- The alarm will also switch itself off if no button is pressed for 2 minutes during the ringing.
- Press the **SNOOZE/LIGHT** button to interrupt the alarm tone for 5 minutes. The "ZZ" icon and the respective ⏰ or ⏰ will flash next to the time. If no button is pressed, the alarm clock will start again to ring after 5 minutes. Then you can interrupt it again by pressing **SNOOZE/LIGHT** or turn it off by pressing any other button.

Maximum and minimum values
- The device is equipped with two memories for minimum and maximum values. These are min. and max. values with automatic reset every 24 hours (marked "24hrs" on the display, resets every day at 0:00, can also be reset manually) and min. and max. values with manual reset (marked "all time" on the display). The device remembers the min. and max. values measured by the indoor unit and all three wireless sensors.
- Press the UP/MEM button. The max. values for 24 hours will appear on the display. Pressing the button again will display the min. values for 24 hours, the max. values since the manual reset, and the min. values since the manual reset.
- If you want to reset one of the above values, display it and then press and hold the UP/MEM button for 3 seconds. The value will be reset. You can reset both the manually reset memory ("all time") values and perform an additional reset of the automatically reset memory ("24hrs").

Weather forecast
- The station displays an indicative weather forecast for 12 hours based on changes in atmospheric pressure. Please note that the weather station only shows the general weather trend. If, for example, the station shows a rain symbol but it is not raining, this does not mean that the station is faulty. It only means that the air pressure has dropped and a worsening of the weather is expected, but not necessarily rain. The success rate of weather forecasts is around 70%.
- The forecast is displayed with 6 symbols: *clear*, *partly cloudy*, *cloudy*, *light rain*, *heavy rain, snow.*
- When the station is initially started, or when it's restarted, it's recommended to set the current weather symbol, so the station knows what the initial weather condition is (see *Pressure and weather symbol settings* below). You can change the displayed forecast symbol at any time. Please note that the weather forecast becomes more accurate after a few hours or even days after (re)start.

Pressure and weather symbol settings
- Press and hold the PRESS button to start the pressure setting mode.
- The first adjusted value flashes. Set the desired value using the UP/MEM and DOWN buttons. Then confirm the set value by pressing the PRESS button.
- You can set the following values in sequence:
  - Absolute or relative pressure display (Abs or Rel on the display)
  - Relative pressure value (only if you selected relative pressure in the previous step)
  - Weather forecast symbol (see above)
- The relative pressure value is linked to the sea level altitude. The device cannot determine this automatically, so it must be set individually. Find out the pressure value in your area (on the internet, from a nearby weather station, airport, etc.).

History of pressure, bar chart
- Short presses of the **PRESS** button allow you to view the history of the pressure value over the last 12 hours.
- Pressure development is also shown by a bar chart on the right side of the display and a pressure trend indicator (arrows indicate rising, falling, or stable pressure).
- Pressure trends affect the weather forecast. If the pressure is falling, you can expect the weather to worsen; if it is rising, you can expect it to improve. If the pressure is stable, the weather is unlikely to change significantly.

Room climate indication
- The climate level at the measuring point is shown on the display with a smiley icon:

Icon	Temperature and humidity
🙂	40–70 % RH and 20–28 °C
😐	<40 % RH, any temperature

☹   >70 % RH, any temperature

Trend indicators
- The arrows indicate whether the measured temperature, humidity or pressure is decreasing, increasing or unchanged.

Frost alarm
- Frost alarm symbol (snowflake) appears on the display if the temperature of the external sensor on channel 1 is lower than +1 °C.

Temperature alerts
- Temperature alarms can be easily activated by pressing the **ALERT** button. Temperature alarm symbols for the indoor unit and all sensors will appear on the display.
- Alarm limits can be set by pressing and holding the **ALERT** button. The first limit to be set flashes and the corresponding part of the temperature alarm is displayed next to it. Set the desired limit using the **UP/MEM** or **DOWN** buttons. Save the limit setting with the **ALERT** button and move on to setting the next limit.
- Set the following limits in sequence: upper limit for internal temperature, lower limit for internal temperature, upper limit for channel 1, lower limit for channel 1, and then the limits for channels 2 and 3. The upper and lower limits are marked with the symbols ⬆ and ⬇.
- The default limit values are +50 and 0 °C for the internal temperature and +60 and –40 °C for the temperature on channels 1–3.
- If the alarms are enabled and the temperature exceeds any of the set limits, the indoor unit will beep. The beeping will repeat approximately once per minute until the temperature returns to within the limit. The temperature that exceeds the limit flashes on the display, along with the corresponding icon or ⬇ for the indoor unit or one of the transmitters.
- You can turn off the alarm beep by pressing any button. However, the temperature that is outside the alarm limit will continue to flash on the display until it returns to within the limit.

PLACEMENT
- The indoor unit and wireless sensors can be placed on a suitable table, desk or shelf or hung on the wall using the hanging holes.
- Avoid proximity to sources of interference such as PC monitor, TV, various metal objects, etc. The indoor unit is designed to be placed indoors. Place the outdoor sensor in a dry and shady place (direct sunlight affects the measurement and constant exposure to moisture puts unnecessary strain on the electrical components).
- Cable probe is waterproof, but connector on the transmitter must be protected from moisture. Place the cable probe so that it cannot be damaged by sharp edge, or frequent opening and closing of the window etc.
- Check that the signal from the sensor reaches the indoor unit from the intended location (max. 100 m in an open area without obstacles). In concrete buildings, the received signal is naturally weaker. If necessary, select another location for the transmitter or indoor unit.

CARE AND MAINTENANCE
- Clean the device with a soft, damp cloth. Do not use cleaning agents.
- Remove the batteries if you will not be using the device for a long period of time.
- Keep the indoor unit in a dry place.

BATTERY CHANGE
- Replace the batteries in the wireless sensor if the weak battery symbol appears on the display next to the transmitter readings.
- Replace the batteries in the indoor unit if the weak battery symbol appears on display next to the indoor temperature. (The battery symbol appears also when the base station is powered only by the USB port and the battery compartment is empty.)
- **Please note**: after replacing the batteries, contact between the outdoor transmitters and the station must be re-established–so proceed as when you first start the unit or start a manual search for a transmitter.

PROBLEM SOLVING
The display shows no data or incomplete data:
- Check the USB cable connection to the power source.
- Make sure the batteries are positioned correctly.
- Replace the batteries.
- Press **SNOOZE/LIGHT** button.
- Restart the base and transmitter(s).

No reception from the transmitter. "--" is displayed:
- Transmitter(s) not installed.

- Replace the batteries.
- Start a manual search for the transmitter.
- Select a different location for the transmitter/base.
- Reduce the distance required for data transmission between the transmitter and the base station.
- Check for any nearby sources of interference.

No DCF reception:

- Start a new DCF signal reception: hold buttons **UP/MEM** and **DOWN**.
- Check that the radio signal reception is not switched off (see *Time, language, °C/°F and pressure unit settings*).
- Wait for DCF reception at night.
- Choose a different location for the base.
- Check for any nearby sources of interference.
- Restart the device.
- Set the time manually.

WASTE PROCESSING

The product was made from premium materials and components that can be recycled and reused.

Never dispose of empty batteries and rechargeable batteries in household waste.

As a consumer, you are responsible for taking them to an electrical store or local waste collection point, according to your current legislation, and thereby protecting the environment.

The symbols of the heavy metals contained are as follows: Cd = Cadmium, Hg = Mercury, Pb = Lead

This device is marked with the European Waste Electrical and Electronic Equipment (WEEE) label.

Please do not dispose of this device in household waste. The user is obliged to take the end-of-life device to the appropriate collection point for electrical waste to ensure that it is processed in accordance with the environment.

SPECIFICATIONS

Base

Power supply:	USB-C, 3x of 1.5 V AAA batteries (batteries are not included)
Temperature measurement range:	-9,9... +50 °C (14,1...122 °F)
Accuracy of temperature measurement:	±1 °C (at 0...+40 °C, otherwise ±2 °C)
Moisture measurement range:	20...95 % rH (outside the measurement range, 20 or 95 % is displayed)
Moisture measurement accuracy:	±5 % rH (at 30...80 % rH)
Pressure measurement range:	600...1100 hPa
Dimensions:	205 x 131 x 26 mm
Weight:	317 g

Wireless temperature and humidity sensor

Wireless transmission range:	max. 100 m in open space
Transmitting frequencies:	433 MHz
Power supply:	2x 1.5 V AAA batteries (not included)
Temperature measurement range:	-40°C...+60°C (–40...+140 °F)
Accuracy of temperature measurement:	±1°C (at 0...+40°C, otherwise ±2 °C)
Moisture measurement range:	20...95 % rH (outside the measurement range, 20 or 95 % is displayed)
Moisture measurement accuracy:	±5 % rH (at 30...80 % rH)
Dimensions:	57 x 106 x 27 mm
Weight:	57 g

Manufacturer: Bibetus, s.r.o., Loosova 1, Brno 638 00, Czech Republic

Hereby, Bibetus s.r.o. declares that the radio equipment type Airbi HOME (model YJ5130) is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the internet address: www.airbi.eu

No part of this manual may be published without the written consent of the manufacturer. Technical data are valid as of the date this manual was printed and are subject to change without prior notice. The latest technical data and product information can be found on our website.

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