iMETEO P1 user manual

Weather station with temperature, pressure and weather trend function, equipped with an external measuring sensor and projector.

TechniSat

Notes on recycling

Your new device was protected by the packaging on its way to you. All materials used are environmentally friendly and recyclable. Please help us to dispose of the packaging in an environmentally friendly manner. Please contact your retailer or local waste disposal facility for information on current disposal methods.

This appliance has been designed and manufactured with high-quality materials and components that can be reused. Symbol for a crossed-out wheeled bin means that the product is subject to separate collection in accordance with Directive 2012/19/EU of the European Parliament and of the Council and in accordance with Directive 2006/66/EC of the European Parliament and of the Council, and informs that electrical and electronic equipment and batteries and accumulators, after their end of life, must not be disposed of with other household waste. The user is obliged to hand it over to a waste electrical and electronic equipment and batteries and accumulators collection system operator, including the appropriate shop, local collection point or municipal unit. Waste equipment may have a harmful impact on the environment and human health due to its potential content of hazardous substances, mixtures and components. The household plays an important role in contributing to the reuse and recovery, including recycling, of waste equipment. At this stage, attitudes are formed that influence the preservation of the common good, which is a clean natural environment. Households are also one of the largest users of small appliances, and rational management of such appliances

affects the recovery of secondary raw materials. If this product is not disposed of properly, penalties may be imposed in accordance with national legislation.

1. Introduction
Security
Read all safety instructions carefully and keep them for future reference. Always follow all warnings and instructions in this manual and on the back of the appliance.

Be careful when using the mains adapter!
- The power supply may only be connected to a mains supply of

⚠️

230-240 V~, 50Hz. Never attempt to use the unit for operation at any other voltage.
- The power cable must not be connected until the installation is properly completed.
- If the unit's power cord is damaged, or if the unit is otherwise damaged, do not operate the unit.
- Do not pull on the cable when disconnecting the power supply from the socket.
- To avoid the risk of fire and electric shock, do not expose the device and the power supply unit to rain or moisture.
- Do not use the device near baths, swimming pools or water.
- Do not place containers with liquids, such as flower vases, on the unit. They may fall off and the leaking liquid may cause serious damage or risk of electric shock.

- Do not open the housing. Otherwise there is a risk of electric shock.
- Never attempt to repair a defective unit yourself. Always contact one of our customer service centres.
- Do not open the unit under any circumstances - this can only be done by a specialist.
- Foreign bodies, e.g. needles, coins, etc., must not fall into the unit.
- The appliance is not a toy. Children do not recognise the hazards associated with the use of electrical appliances. Keep the appliance out of the reach of children and pets.
- Do not crush, throw or shake the device.
- Do not use any heat sources near the station or sensors, which may also heat them up.
- Please do not use the device if it has fallen into water.
- Please use only a dry cloth for cleaning.

⚠ Attention:
- Please do not remove the housing on your own.
- Do not grease / lubricate the unit.
- Do not place the unit on top of other electrical equipment.
- The product is designed for indoor use.
- The station is powered by a 5V/150 mA AC adapter, the detector by an LR 06 AA battery. Please keep batteries (not supplied) away from heat sources and open flames.

⚠ Danger of suffocation! Packaging and its parts should not be left to children. Risk of suffocation due to foil and other packaging materials

⚠ Never look directly or with optical in- strument into the light beam of the projector.
Risk of eye damage!

2. Special functions of the device
- DCF radio clock
- Time format 12 or 24 hours
- Calendar to 2099
- Display of days of the week in 7 languages: English, German, Italian, French, Spanish, Dutch and Danish.
- Alarm and snooze function
- Low battery indicator
- Comfort level indicator
- Relative humidity: Indoor and outdoor measurement range: 20%RH ~ 95%RH

Temperature:
- Indoor temperature measurement range: 0°C (32°F) ~ 50°C (122°F)
- range of indicated outdoor temperature measurement: -30°C (-4°F) ~ 70°C (140°F)
- choice of temperature unit °C or °F

- Temperature, humidity and comfort level displayed on the main screen of the station
- Ice alarm
- Dew point measurement
- Memory for maximum/minimum temperature and humidity values

Wireless outdoor sensor:
- can be wall-mounted or placed on a desk
- 3 variable channels
- Transmission frequency and power: 433.92MHz RF, +10dBm
- transmission range in open field: up to 60 metres
- Weather forecast and barometer
(trend) Power supply:
- Weather station:
5V DC power supply (600mA), *CR2032 battery (for memory backup in case of power failure)
- Outdoor sensor (IPX3 water resistance class):
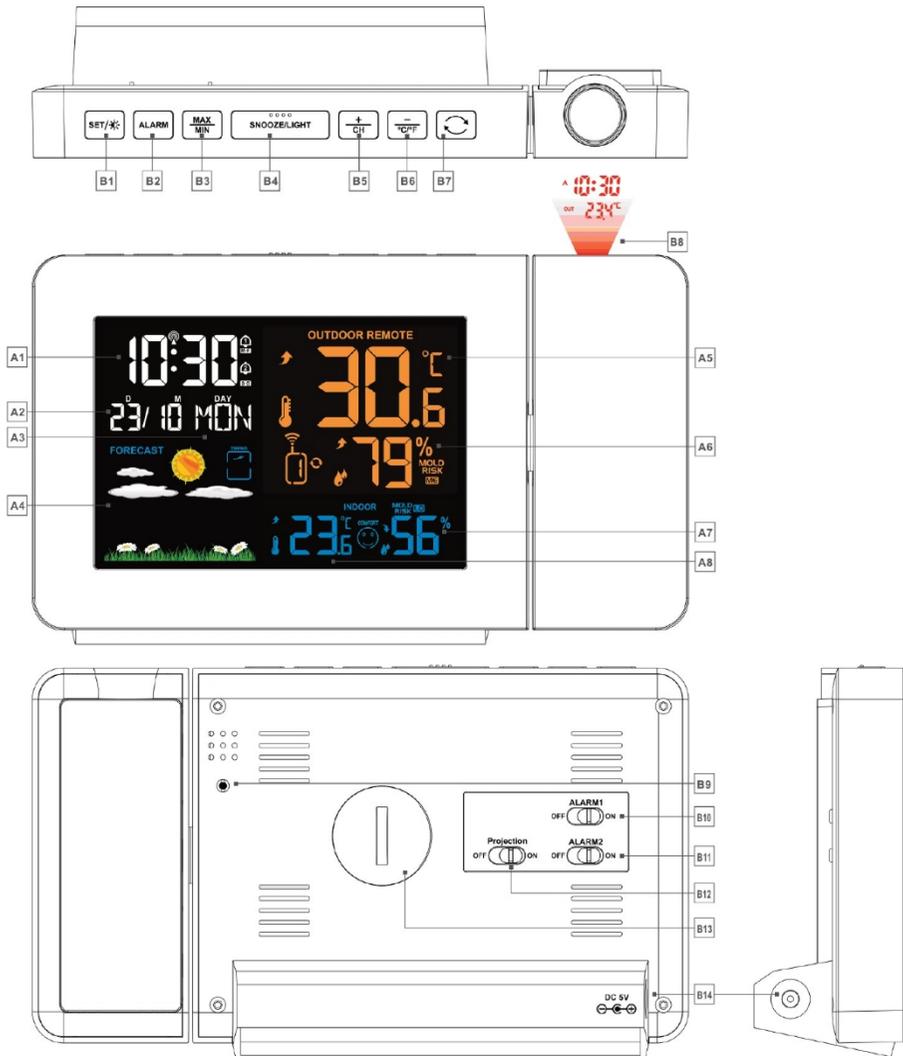*Batteries: 2 x LR06 AA
* Batteries not included.

Note on battery selection and DCF time retrieval The external sensor can operate at temperatures from -30°C to +70°C. The zinc-manganese alkaline battery can operate at temperatures from -20°C to +60°C.
The lithium-ion polymer battery can operate at temperatures from -40°C to +70°C.

A CR2032 battery (not supplied) is the reserve power source for the weather station. When the power supply is not connected to the weather station, the display of the weather station will not be automatically illuminated.

Please note that the backlight will automatically switch off when you enter radio control time reception mode. This is a normal occurrence. When the radio control time is received, the backlight will automatically turn on.

3. View of the device

Base station front

A1: Time

A2: Calendar A3: Week

A4: Weather forecast

A5: Temperature outside A6: Humidity outside A7: Humidity inside

A8: Internal temperature

Rear base station B1: SET button B2: ALARM button

B3: MAX/MIN button

B4: SNOOZE/LIGHT button B5: +/CH button

B6: -/C/F button

B7: ⟳ button B8: Projector

B9: Temperature sensor

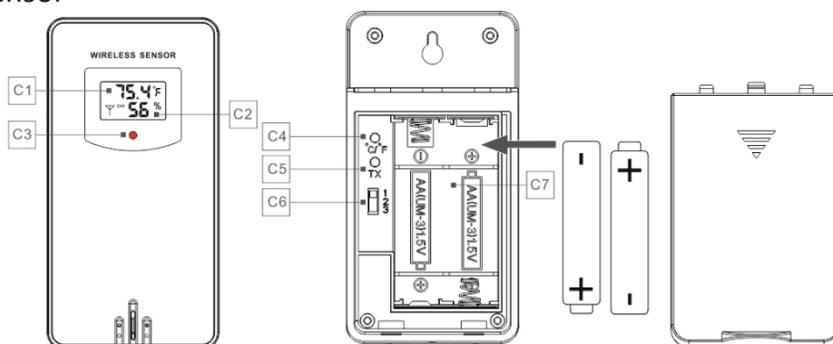B10: Alarm 1 on/off switch B11: Alarm 2 on/off switch B12: Projection switch

B13: Battery cover

B14: Power connector External sensor

C1: Outdoor temperature

C2: External humidity
C3: Transmission LED C4: Unit selection
°C /°F
C5: Manual transmission with transmitter
(TX) C6: Channel switch
C7: Battery compartment

4. First configuration of the device
a. Switching on the weather station for the first time
- Connect the 5V DC (600mA) power supply to the power connector (B13).
- When the battery is inserted , the display segments will illuminate, the unit will beep and display the current indoor temperature and humidity readings.
- The weather station will start synchronisation with the external sensor. This process will take a maximum of 3 minutes and will be indicated by a flashing antenna symbol on the display of the external sensor.
- Then, open the battery cover on the outdoor sensor, set the channel switch to position "1", "2" or "3" (C6), insert two AA batteries observing the polarity markings ["+" and "-" signs] , close the battery compartment (C7).
- Once connected to the external sensor, the station will enter radio-transmitted time settings download mode.

b. DCF radio signal reception
- The device will start automatically picking up the DCF signal 3 minutes after start-up. The radio mast icon will flash.
- Each day at 1:00 / 2:00 / 3:00 a.m., the unit automatically synchronises the time settings according to the received DCF signal, thus correcting any deviation from the correct time indication. If synchronisation attempts fail (the antenna mast symbol disappears from the display), the appliance makes another attempt at full time. The synchronisation procedure is then repeated up to 5 times.

b. DCF radio signal reception

- The unit will start automatically picking up the DCF signal 7 minutes after start-up or after a battery change. The radio mast icon will flash (the screen will dim).

- Each day at 1:00 / 2:00 / 3:00 a.m., the unit automatically synchronises the time settings according to the received DCF signal, thus correcting any deviation from the correct time indication. If synchronisation attempts fail (the antenna mast symbol disappears from the display), the appliance makes another attempt at full time. The synchronisation procedure is then repeated up to 5 times.

- To manually start DCF time synchronisation, press and hold the -/C/F button (B6) for 3 seconds. If the unit does not receive a radio signal within 4 minutes, the search will end (the radio mast icon will disappear), the screen will be illuminated and will restart at full time.

- To stop searching for the DCF radio signal, press and hold the -/C/F button (B6) for 3 seconds.

Additional information

- A flashing radio mast symbol indicates that a DCF signal search has started .

- A permanently displayed radio mast icon indicates that the DCF signal has been received successfully.

- It is recommended that the product be placed at least 2.5 metres away from any sources of potential interference such as televisions, computer monitors or power supplies.

- Signal reception is weaker in rooms with concrete walls (e.g. basements) and in offices. In this case, the station should be placed near a window.

- During reception of the DCF signal, only the SNOOZE/LIGHT button (B4) is active, the other buttons are inactive. If you wish to use other functions, press and hold the -/C/F button (B6) for 3 seconds to interrupt reception of the DCF radio signal.

c. Device configuration

- Press and hold the SET button (B1) for 3 seconds to enter the setting mode. The display will start to flash "ON"
- Use the +/CH (B5) and -/C/F (B6) buttons to set the radio control timing function to ON or OFF.
- Press the SET button (B1) to confirm the setting, use the +/CH (B5) and -/C/F (B6) buttons to set the correction for the time zone.
- Press the SET button (B1) to confirm the setting, use the +/CH (B5) and -/C/F (B6) buttons to set the 12 or 24 hour mode.
- Press the SET button (B1) to confirm the setting, the time will start to flash on the display. Use the +/CH (B5) and -/C/F (B6) buttons to set the time correctly.
- Press the SET button (B1) to confirm the setting, the minutes will start to flash on the display. Use the +/CH buttons (B5) and -/C/F (B6) to set the minutes correctly.
- Press the SET button (B1) to confirm the setting, the year digits will start flashing on the display. Use the +/CH (B5) and - buttons. /C/F (B6) to set the correct year.
- Press the SET button (B1) to confirm the setting, the month digits will flash on the display. Use the +/CH (B5) and -/C/F (B6) buttons to set the correct month.
- Press the SET button (B1) to confirm the setting, the day digits will start flashing on the display. Use the +/CH (B5) and - buttons. /C/F (B6) to set the correct day.
- Press the SET button (B1) to confirm the setting, Month and Day will start to flash on the display. Use the buttons +/CH (B5) and -/C/F (B6) to set the display order Month/Day or Day/Month.
- Press the SET button (B1) to confirm the setting, the weekday language selection will start to flash on the display. Use the +/CH (B5) and -/C/F (B6) buttons to set the language of the days of the week.
- Press the SET button (B1) to confirm the setting, on the display. The weather forecast will flash on the display. Use the +/CH (B5) and -/C/F (B6) buttons to view the current weather outside the window.

- Press the SET button (B1) to confirm the setting and complete the configuration, the unit will return to normal display mode.

Additional information
- If no settings have been made within 20 seconds, the device will automatically return to normal display mode.
- When making a selection, longer pressing the
+/CH (B5) and -/C/F (B6) will change parameters more quickly.
- For the country "Poland", the time zone correction should be set to "00".
- When the distance between the weather station and the DCF tower in Frank- furth (Germany) is 1500 km or more, the signal received is very weak. It is recommended to set the radio control time to OFF.

5. Setting alarms
On the back of the unit there is an on/off button for ALARM1 and an on/off button for ALARM2. Using the slider, we can activate or deactivate Alarm 1 and Alarm 2. Two alarms can be set at different times of the day.

- Press the ALARM (B2) button briefly, the display will show the alarm time, press the ALARM (B2) button again, the station will return to the current time display.
- Press and hold the ALARM button (B2) for 3 seconds, the alarm hour digits will start flashing on the display. Use the buttons
+/CH (B5) and -/C/F (B6) to set the alarm time.
- Press the ALARM button (B2) to confirm the setting, the alarm minute digits will start flashing on the display. Use the buttons
+/CH (B5) and -/C/F (B6) to set the alarm minutes.
- Press the ALARM button (B2) to confirm the setting, the alarm modes will flash on the display. Use the +/CH (B5) and -/C/F (B6) buttons to set M-F or S-S .
M-F - the alarm will be activated from Monday to Friday S-S -
the alarm will be activated at weekends

If M-F and S-S are set together, the alarm will be active throughout the week.
- Press the ALARM button (B2) to confirm the setting, the snooze time minutes will flash on the display. Use the +/CH (B5) and -/C/F (B6) buttons to set the snooze time minutes.
- Press the ALARM button (B2) to confirm the settings and proceed to alarm setting 2.
- Please set alarm 2 as described above.

Alarm deactivation
- While the alarm is in progress, press any button except SNOOZE/LIGHT (B4) to switch off the alarm.
There is no need to re-activate the alarm, it will automatically sound at the same time the next day depending on the settings (S-S,M-F).
- The SNOOZE/LIGHT button (B4) starts the snooze time. The snooze time depends on the alarm settings. The default is 5 minutes.

Additional information
- If no settings have been made within 20 seconds, the device will automatically return to normal display mode.
- If the alarm is not switched off by pressing any button, the alarm will be automatically switched off after 2 minutes. In this case, the alarm will also be repeated automatically after 24 hours.
- During the duration of the alarm (time: 2 minutes), the sound signal changes in volume.

Snooze function
- While the alarm is in progress, please press the SNOOZE/LIGHT button (B4). The alarm will resume after 5 minutes (unless a different time has been set).

6. RF data transmission
- The weather station will automatically start receiving data on

temperature and humidity, from an external sensor, after connection to a 5V DC power supply.
- The outdoor sensor automatically transmits temperature and humidity data to the weather station when the batteries are inserted.
- The station can be connected to three external sensors at the same time (channels: 1,2,3).
- If the weather station is not receiving data from the external sensor (the "- -.-" icon will appear on the display),
- Press the +/CH button (B5) to select the channel of the external sensor with which the station is to connect.
- If the symbol↻ appears next to the channel name, the station will display the indications for each channel in turn every 5 seconds.
- If the weather station does not receive a transmission from the remote sensor, press and hold the +/CH button (B5) for 3 seconds to receive the transmission manually. The station will start searching for a signal from the external sensor (RF icon will start flashing).

Additional information
If the temperature indication is below the range, the LL.L symbol will be displayed. If the temperature indication exceeds the range, the HH.H symbol will be displayed.

7. Ice alarm
The ice alarm symbol appears and flashes when the outdoor temperature is between -1°C and + 3°C or between +30.2°F and + 37.4°F.

8. Weather forecast function
- The weather station calculates the weather forecast for the next 12 hours based on the barometric pressure trend.
Of course, this forecast cannot compare with that of professional weather services supported by satellites and high-performance com- puters, but it only provides an approximation of current developments. When using the weather forecast, it is important to take into account the

If there are any discrepancies between the forecasts, the forecast from the local weather station should be used. If there is a discrepancy between the forecasts, the forecast from the local weather station should be used.

9. Pressure trend
The station allows the pressure trend to be displayed
- The following indications are
visible: pressure increases pressure does not change
pressure decreases

10. Screen backlighting
- Individual presses of the SET button (B1) change the intensity of the lighting. Four settings are available, ranging from very intensive backlighting, medium, low backlighting to complete backlight off.

11. Changing temperature units
- Single presses of the -/C/F (B6) button change the temperature unit. Available units: degrees Celsius, degrees Fahrenheit.

12. Internal time and temperature projection
- Please move the projection switch (B12) to the "ON" position to switch on the projection.
- Moving the projection switch to the "OFF" position will turn off the projection.
- To adjust the intensity of the projection, please press and hold the button (B7) for 3 seconds. Two settings are available; strong backlight and weak backlight.
- To rotate the projection, please press (B7).

The effective distance of the projection display is between 1 and 3 metres to the ceiling or wall. The projector displays temperature and current time information.

13. Contact details

CE

TechniSat Digital Sp. z o.o. hereby declares that the IMETEO P1 me- teorological station is compliant with Directive 2014/53/EC and RoHS.
The full text of the EU Declaration of Conformity is available at the following internet address: http://konf.tsat.de/?ID=23023

14. Manufacturer
TechniSat Digital Sp. z o.o.
ul. Poznańska 2,
Siemianice 55-120 Oborniki
Śląskie

15. Power supply specifications
Input: AC 100-240V, 50/60 Hz
Output: DC 5V, 600mA (power 3W max)
No-load power consumption: 0.1W Max (115/230V AC) Average operating efficiency: 69,64%
Power supply manufacturer: HUAXU ELECTRONIC FACTORY Model: HX075-0500600-AG-001