WH6000 PRO
WiFi Internet Wireless Weather Station

Manual (EN)

Support/Updates/Manuals/Spare parts/compatible products:
www.froggit.de

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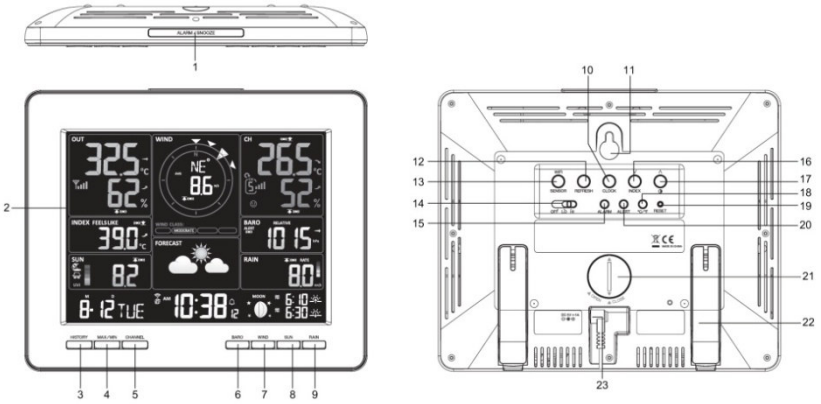

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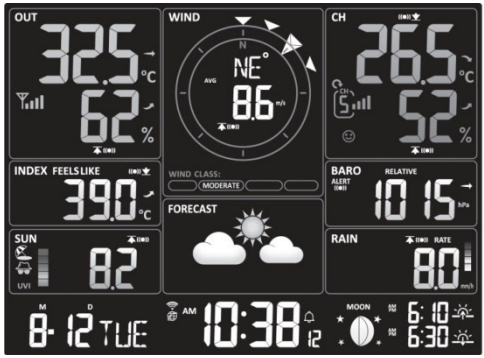
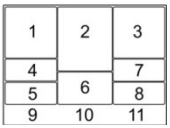
LCD DISPLAY

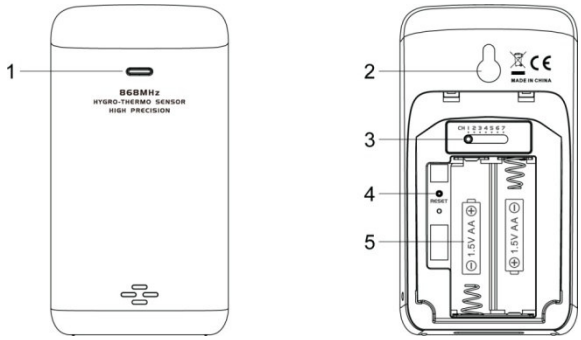




Display section:

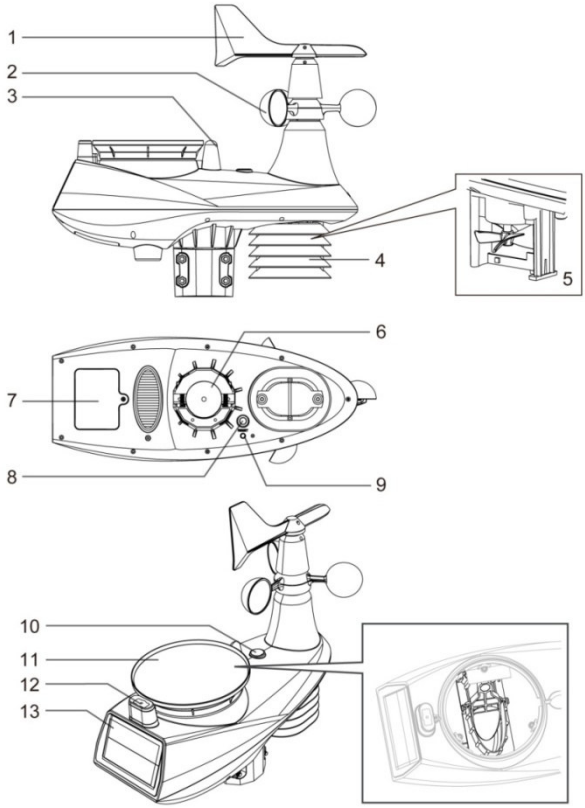
1 Outdoor temperature & humidity
2 Wind direction & speed
3 Indoor (CH) temperture & humidity
4 Weather index
5 UV index & light intensity (Sun)
6 Weather forecast
7 Barometer
8 Rainfall & Rain rate
9 Calendar
10 Time / alarm
11 Moon phase & Sunrise & Sunset time

THERMO-HYGRO INDOOR SENSOR



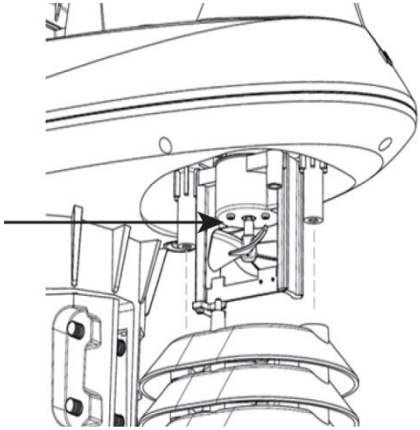
1 Transmission status LED
2 Wall mounting holder
3 Channel slide switch
4 Reset key
5 Battery compartment

7-IN-1 OUTDOOR SENS



1Wind vane
2 Wind cups
3 Antenna
4 Radiation shield
5 Thermo-Hygro sensor and Ventilating fan
6 Mounting parts
7 Battery door
8 Reset key
9 Transmission LED
10 Bubble level
11Rain collector
12 UV/light sensor
13 Solar panel

SMART VENTILATING FAN



A fan is installed inside the radiation shields to reduce the effects of solar heat.
The fan is driven by a solar panel and rotates automatically under 2 conditions:
1. when the sun shines on the solar panel, and 2. the average wind speed is less than 5 m/s for 1
minute.

INSTALLATION AND SETUP

Your console can be linked to a 7-in-1 wireless outdoor sensor and up to 7 wireless indoor sensors.
(1 wireless indoor sensor is included)

INSTALL 7-IN-1 WIRELESS SENSOR

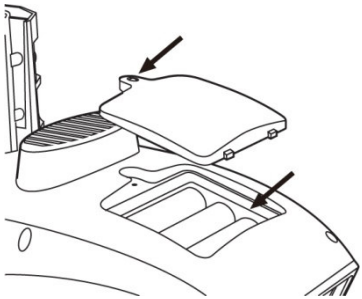
Your wireless 7-IN-1 sensor measures wind speed, wind direction, precipitation, UV, light intensity, temperature and humidity for you. The sensor is already calibrated and assembled.

INSERTING BATTERIES

Unscrew the battery cover on the bottom of the unit and insert the batteries according to the +/- polarity indicated. Screw the battery cover on tightly.

NOTE:

The red LED will start flashing every 12 seconds.



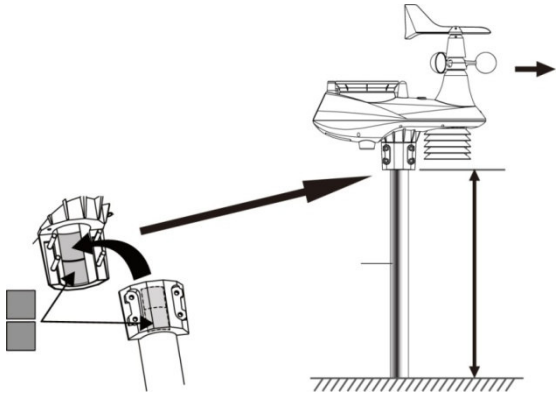
ALIGNMENT OF MOUNTING POST AND DIRECTION

Install the 7-IN-1 wireless sensor in an open

Position without obstacles above and around the sensor for accurate rain and wind measurements.

Install the sensor so that the smaller end is facing north to correctly align the wind direction flag.

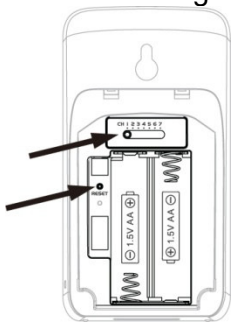
Attach the mounting stand and bracket (supplied) to correctly align the wind vane.



INSTALL WIRELESS INDOOR SENSOR

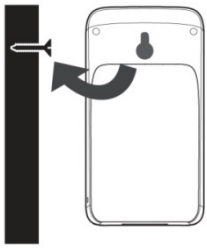
Remove the battery compartment of the sensor.

Set the channel number for the sensor with the channel slide switch. (e.g. channel 1)
Insert 2 x AA size batteries into the battery compartment and close the battery cover according to the polarity indicated on the battery compartment.
4. the sensor is in synchronisation mode and will be automatically detected by the display console within the next few minutes The transmission status LED will start flashing every 1 minute.

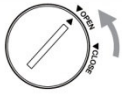


NOTE:
- If you need to reassign the sensor channel, slide the channel slide switch to the new channel.
position. To make the new channel number effective, press the [RESET] key on the sensor.
- Avoid placing the sensors in direct sunlight, rain or snow.
- To prevent the sensor(s) and the console from not being able to be connected to each other during the setup of the new console, please turn
first select the sensor(s), and then press the [RESET] key on the main unit (not required for sensors).

PLACEMENT OF THE WIRELESS INDOOR SENSOR
Attach a screw to the wall where you want to hang the sensor.
Use the wall bracket to hang the sensor on the screw. You can also place the sensor on a table by itself.



SETTING UP THE CONSOLE
INSTALLING THE FUSE BATTERY

Step 1	Step 2	Step 3
		
Remove the console battery door with coin	Insert a new button cell battery	Replace the battery door.

NOTE:
The emergency battery can be used as a backup: Time & date, Max/Min & weather records of the last 24 hours, Alarm Setting values, offset value of weather data and sensor(s) channel progression.
The built-in memory can save: Router setting and weather server setting
SWITCH ON THE CONSOLE
Plug the supplied adapter into the power socket on the back of the console.
Once the console is switched on, all segments of the LCD screen are displayed briefly.
The console will automatically switch to Sensor Sync mode and AP mode (see Setting up WI-FI connection).
NOTE:
If no display appears on the LCD screen after the adapter is inserted, press the [RESET] key using a pointed object.

SYNCHRONISATION OF WIRELESS 7-IN-1 SENSOR AND INDOOR SENSOR(S)

Immediately after switching on, in synchronisation mode, the 7-in-1 sensor and the interior sensor are automatically coupled to the console. Once your sensors are paired, the
The signal strength indicator of the sensors and the weather forecast will appear on your console display.

BUILT-IN MEMORY

The console has a built-in FLASH memory where the most important settings are stored. These include:
- Time zone, DST status, time SYNC status, WI-FI and weather server settings, latitude /
Longitude, hemisphere setting, calibration values and sensor ID of the sensor pair(s).

RESET AND RETURN TO FACTORY SETTINGS

To reset and restart the console, press the [RESET] key once. To reset the console
and restore the factory settings, press and hold the [RESET] key for 6 seconds.

RESYNCHRONIZING SENSORS

Press the [SENSOR / WI-FI] key once to switch the console to the sensor synchronization mode,
and the console will re-register any sensors that have been previously registered with it.
This means that the console will not lose the connection of the sensors you paired previously.

BATTERY REPLACEMENT AND MANUAL SENSOR PAIRING

Whenever you have changed the batteries of the wireless indoor or 7-in-1 outdoor sensor, resynchronisation must be performed manually.
Replace all batteries in the sensor with new ones.
Press the [SENSOR / WI-FI] key on the console to enter the sensor synchronization mode.

Press the [RESET] key on the indoor or 7-in-1 outdoor wireless sensor.

SYNCHRONIZING ADDITIONAL WIRELESS SENSOR(S) (OPTIONAL)
The console can support up to 7 additional wireless sensors.
Press the [SENSOR / WI-FI] key on the console once to enter the synchronization mode.
Press the [RESET] key on the new sensor and wait a few minutes.

NOTE:
- The channel number of the indoor sensor must not be duplicated between the sensors.
- This console can support different types of additional wireless sensors, e.g. soil moisture and
Pool sensor. If you want to couple additional sensors, please ask your dealer for
more details.

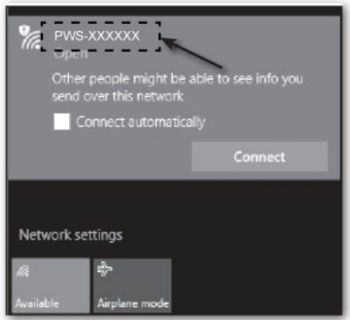
POINT THE WIRELESS 7-IN-1 SENSOR SOUTH
The 7-IN-1 outdoor sensor is calibrated to face north for maximum accuracy. Whatever the case,
for the convenience of the user (e.g. users in the southern hemisphere), it is possible to orient the sensor towards the south (display of the wind vane towards the south)
1. install the 7-IN-1 outdoor sensor so that the end of the wind meter faces south.
Select "S" in the Hemisphere section of the Setup UI Setup page.
Press the Apply icon to confirm and exit.
NOTE:
If you change the Hemisphere setting, the direction of the moon phase is automatically switched on.

CREATE WEATHER SERVER ACCOUNT & SET UP WI-FI CONNECTION
The console can upload weather data (outdoor data only) to WUnderground and/or Weathercloud via WI-FI.
NOTE:

The Weather Underground and Weathercloud websites are subject to change without notice.

SETTING UP A WI-FI CONNECTION

1. When you turn on the console for the first time, the console LCD flashes "AP" to indicate that it has entered AP (Access Point) mode and is in Wlan search mode. The user can also press and hold the [SENSOR / WI-FI] key for 6 seconds to display the AP mode manually.
2. Use the smartphone, tablet or computer to connect the console via WI-FI.
3. Select the WiFi network settings for PC/Mac or the WI-FI setting for Android/iOS, select the console SSID: PWS-XXXXXXXX in the list and it will take a few seconds to connect.



4. Once connected, enter the following IP address in the address bar of your Internet browser to access the console Web Interface:

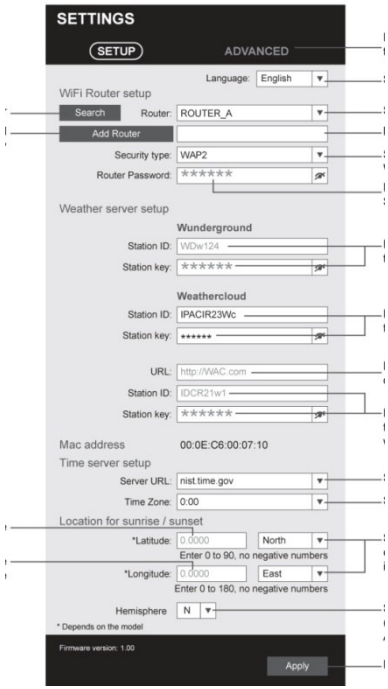
http://192.168.1.1

NOTE:
- Some browsers treat 192.168.1.1 as a search, so make sure you include the http:// header.
- Recommended browsers, such as the latest version of Chrome, Safari, Edge, Firefox or Opera.

STATUS OF THE WI-FI CONNECTION
Below is the status of the WI-FI icon on the console LCD:

Stable: Console is in connection with WI-FI router	Flashing: Console is trying to connect to WI-FI router	Flashing: Console currently in Access Point (AP) mode

SETTING UP THE WEATHER SERVER CONNECTION
Enter the following information in the "SETUP" page of the Web Interface below to connect the console to the weather server. If you do not want to use Wunderground.com or Weathercloud.net, leave the Station ID & Key fields blank to ignore the data upload.

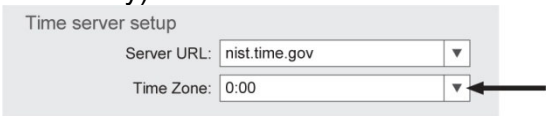


NOTE:
- If you do not have a station ID and station key available for uploading, you must first create an account with the respective Weather Underground (WU) and
Create Weather Cloud (WC). Follow the registration to get the ID and keys.

- When the WI-FI setup is complete, your PC / Mac or mobile phone will resume your default WI-FI.
- During AP mode, you can press and hold the [SENSOR / WI-FI] key for 6 seconds to restore your previous setting.

TIME ZONE

To automatically set the time display to your time zone, change the time zone on the SETUP page from '0:00' (default) to your time zone (e.g. +1:00 for Germany).

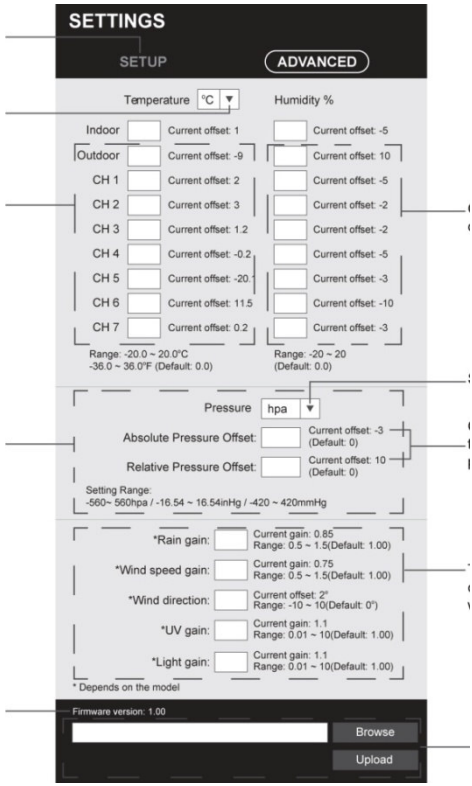


TIME SERVER CONNECTION STATUS

Once the console has connected to the Internet, it will try to connect to the Internet time server.
The time automatically synchronizes the Internet time server at 12:00AM and 12:00PM per day.
You can also press the [REFRESH] key to manually retrieve the Internet time within 1 minute.

PRESETTING IN THE WEB-INTERFACE

Press the "Advanced" key at the top of the Web Interface to display the Preferences page. From this page, you can set the calibration data of the console.



CALIBRATION

1. the user can enter the offset and/or gain values for various parameters, while the current offset and
the gain values are displayed next to the corresponding blank value.
2 After completing the operation, press Apply at the bottom of the SETUP page to apply the entered data.
The current offset value shows the previous value you entered, please enter the new
value in space, if changes are required, the new value takes effect as soon as you press "Apply".

NOTE:

- Calibration of most parameters is not necessary, except for relative pressure, which
must be calibrated at sea level to take height effects into account.

- The calibration values for room temperature and humidity are not applicable to this console.

Create Wunderground Account

A. Register your personal Wi-fi weather station (PWS).

1 . At https://www.wunderground.com click on the "Join" button in the upper right corner to open the registration page. Follow the instructions to create your account

Note:

You must check your email address before you can register your weather station. Click "Send validation email" to receive an email from wunderground.com containing a validation link. Click on the link to complete the validation.

2 . Once you have created your account and completed the email validation, please go back to the WUndergound website. Click on the button in the top right hand corner to open the drop down menu and select "Add Weather Station" to create your Station ID.

3 . Fix the location on the map. Enter the height above the floor of the wireless outdoor sensor you are installing. Make a note of the latitude/longitude value for the next step of the setup

4 . Enter a name for your PWS, and then select "Other" for "Station Hardware". When you are finished, click "Submit".

5 . Make a note of your station ID and the station key for the further setup step.

Create WeatherCloud account

1. go to https://weathercloud.net and go to the "Join us today" section and then follow the instructions to create your account
2. log in to Weathercloud and then go to the Devices page, click on "+ New" to create a new device
3. enter all information on the Create New Device page
4. Make a note of your ID and key for the next step in the setup process

Live weather data

Wunderground
1 . To view the live data from the wireless outdoor sensor in a web browser (PC or mobile version), please visit www.wunderground.com and then enter your "Station ID" in the search field in the menu bar. The weather information is displayed on the next page

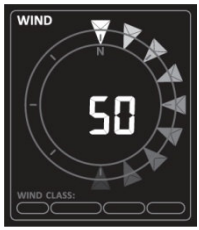
WeatherCloud
1. to view the live data of your weather station in a web browser (PC / Mac or mobile version),
please visit https://weathercloud.net and log in with your own account.

2. click on the icon within the pull-down menu of your station

Click the "Current", "Wind", "Evolution" or "Inside" icon to view the live data from your weather station.

FIRMWARE UPDATE

1. download the latest firmware version to your PC / Mac
2. switch the console to AP (Access Point) mode and then connect the PC / Mac to the console
3. click on the "Browse in firmware update" section and browse the location of the file you want to
in step 1. To update the WI-FI firmware, click the Browse button in WI-FI firmware.
Click on the appropriate upload to start transferring the firmware file to the console.
In the meantime, the console will automatically perform the update and show the update progress on the display (i.e.
100 is complete).
The update time is approximately 5 ~ 8 minutes.
6. the console will restart once the update is complete.



IMPORTANT NOTE:
- Please do not disconnect the power during the firmware update process.
- Please make sure that the WI-FI connection of your PC/Mac is stable.
- When the update process starts, do not operate the PC / Mac or console until the update is complete.
- During the firmware update, the console will stop uploading data to the cloud server. The connection is restored. If the console is unable to connect to your router, please go to the SETUP page to run the setup again.
- After the firmware update, If the setup information is missing, please re-enter the setup information.
- Firmware update processes have a potential risk that cannot guarantee 100% success. If the update fails, please repeat the above step to update again.

OTHER CONSOLE SETTINGS AND FUNCTIONS

MANUAL SETTING OF THE CLOCK

This console is designed to determine UTC time by synchronising with the assigned Internet time server. If you want to use it offline, you can set the time and date manually.
Press and hold the [SENSOR / WI-FI] key for 6 seconds, and return the console to normal mode.
In normal mode, press and hold the [CLOCK SET] key for 2 seconds to display the setting.
2. the setting sequence: DST AUTO/OFF Hour Minute Second Second 12/24 Hour Format Year Month Day M-D/D/D-M Format Time Synchronization ON/OFF Weekday Language.
Press the arrow keys to change the value. Press and hold the quick setting keys.

Press the [CLOCK SET] key to save and exit the setting mode, or the machine will automatically
exit the setting mode 60 seconds later without pressing any key.
NOTE:
- In normal mode, press the [CLOCK SET] key to switch between the year and date display.
- During setting, you can press and hold the [CLOCK SET] key for 2 seconds to return to
normal model.

SUMMERTIME (DST)
The DST function is set to "AUTO" by default.

MOON PHASE
The moon phase is determined by the time, date and time zone. The following table explains the moon phase symbols from the northern and southern hemispheres.

Northern Hemisphere	Moon Phase	Southern Hemisphere
	New Moon	
	Waxing Crescent	
	First quarter	
	Waxing Gibbous	
	Full Moon	
	Waning Gibbous	
	Third quarter	
	Waning Crescent	

SUNRISE AND SUNSET
The console displays the sunrise and sunset times of your location by the time zone, latitude and longitude you have entered. Please enter the correct information in the relevant settings. If the latitude

and longitude value does not match the time zone, the sunrise and sunset time cannot be displayed.

SETTING THE ALARM TIME:

In normal time mode, press and hold the [ALARM] key for 2 seconds until the alarm hour digit
flashes to enter the alarm time setting mode.
Press the arrow keys to change the value. Press and hold the quick setting key.
Press the [ALARM] key again to increase the setting value to minutes with the minute digit flashing.
Press the arrow keys to adjust the value of the flashing digit.
Press the [ALARM] key to save the setting and exit.
NOTE:
- In Alarm mode, the alarm icon is displayed on the LCD panel.
- The alarm function automatically turns on when you have set the alarm time.

ACTIVATION OF THE ALARM AND TEMPERATURE-VORALARM FUNCTION

In normal mode, press the [ALARM] key to display the alarm time for 5 seconds.
When the alarm time is displayed, press the [ALARM] key again to activate the alarm function.
Or, press the [ALARM] key twice to activate the alarm with ice pre-alarm function.

Alarm off	Alarm on	Alarm with ice-alert

NOTE:
When the ice pre-alarm is activated, the preset alarm sounds and the ice alarm icon flashes 30 minutes earlier if the outdoor temperature is below -3°C.
When the clock reaches the alarm time, an alarm tone sounds.
The alarm can be stopped as follows:

- Automatic stop after 2 minutes of alarm if no operation is made, and the alarm is reactivated the next day.
- Pressing the [ALARM / SNOOZE] key to enter the snooze function will cause the alarm to sound again after 5 minutes
- Pressing and holding the [ALARM / SNOOZE] key for 2 seconds to stop the alarm
is triggered again the next day.
- Pressing the [ALARM] key stops the alarm, and the alarm is reactivated the next day.
NOTE:
- The snooze function can be used continuously for 24 hours.
- During the snooze time, the alarm icon continues to blink.

FUNCTION TEMPERATURE / HUMIDITY
- The temperature and humidity readings are displayed in the outdoor and indoor sections (CH).
- Use the [°C / °F] slide switch to select the temperature display unit.
- If the temperature / humidity is below the measuring range, the measured value displays "Lo". When
temperature / humidity is above the measuring range, the measured value shows "HI".

COMFORT DISPLAY
The comfort indication is a pictorial indication based on room air temperature and humidity.
NOTE:
- The comfort indication may vary depending on humidity at the same temperature.
- There is no comfort indication if the temperature is below 0°C (32°F) or above 60°C (140°F).

WIRELESS SENSOR SIGNAL RECEPTION

1. The console displays the signal strength for the wireless sensor(s) as shown in the following table:

2. If the signal is interrupted and does not repeat within 15 minutes, the signal symbol disappear. The temperature and humidity are displayed for the corresponding channel "Er".
3. If the signal is not repeated within 48 hours, the display "Er" becomes permanent. You must replace the batteries, and then press the [SENSOR / WI-FI] key to pair the sensor.

VIEW THE OTHER INDOOR CHANNELS (OPTIONAL FUNCTION WITH ADDITIONAL SENSORS)

This console can be linked to a 7-IN-1 wireless wireless sensor and up to 7 wireless indoor sensors.

If you have 2 or more indoor sensors, you can press the [CHANNEL] key to switch between different wireless channels, or press and hold the [CHANNEL] key for 2 seconds to switch the auto cycle mode and display the connected channels at 4-second intervals. During Auto Cycle mode, the icon is displayed on the indoor channel section of the console. Press the [CHANNEL] key to stop the auto cycle and display the current channel.

TREND INDICATOR

The trend indicator shows the tendencies of changes in the next few minutes. The symbol is displayed in the Temperature, Humidity, Index and Baro section field.

WIND

OVERVIEW OF THE SECTION ON WIND SPEED AND DIRECTION

TO SET THE WIND SPEED UNIT AND THE DISPLAY FORMAT FOR THE WIND DIRECTION

In normal mode, press and hold the [WIND] key for 2 seconds to enter the wind speed unit.
Press the arrow keys to enter the unit of wind speed in this order: m/s km/h knots mph
Press the [WIND] key again to enter the wind direction setting mode. The wind direction display
flashes, and then press the arrow keys to enter the display format between 360 degrees or 16 directions.
Press the [WIND] key again to return to normal mode.

TO SELECT THE WIND DISPLAY MODE

In the normal mode, press the [WIND] key to switch between BEAUFORT (BFT), AVERAGE and GUST.

DEW POINT

- The dew point is the temperature below which the water vapour in the air condenses into liquid water at constant barometric pressure at the same rate as it evaporates. The condensed water is called dew when it forms on a solid surface.
- The dew point temperature is calculated from the temperature and humidity data from the 7-IN-1 wireless sensor.

HEAT INDEX

The heat index, which is determined by the temperature and humidity of the 7-IN-1 wireless sensor, is displayed when the temperature is between 79°F (26°C) and 120°F (50°C).

WIND CHILL

A combination of the temperature and wind speed data from the 7-IN-1 wireless sensor determines the current wind chill factor.

WEATHER FORECAST

The built-in barometer continuously monitors the atmospheric pressure. Based on the collected data,
the weather conditions for the next 12-24 hours can be calculated within a 30 to 50 km radius.

NOTE:

- The accuracy of a general pressure-based weather forecast is approximately 70% to 75%.
- The weather forecast reflects the weather situation for the next 12~24 hours, it cannot reflect the current situation.
- The snow weather forecast is not based on air pressure but on outdoor temperature. If the temperature is below -3°C (26°F), the snow symbol is displayed.

TO DISPLAY THE BAROMETRIC PRESSURE IN DIFFERENT UNITS

In normal mode, press the [BARO] key to change the barometric unit in this order: hPa →
inHg → mmHg

FOR SETTING THE ABSOLUTE OR RELATIVE BAROMETRIC PRESSURE

In normal mode, press and hold the [BARO] key to switch between ABSOLUTE / RELATIVE.

RAIN

The RAINFALL section displays information on precipitation or rain rate.

TO SET THE RAIN RATE UNIT

Press and hold the [RAIN] key for 2 seconds to enter the unit setting mode.
Press the arrow keys to switch the unit between mm and in (rainfall amount) or mm/h and in/h.

Press the [RAIN] key to confirm and exit the setting

TO SELECT THE DISPLAY MODE OF THE RAINFALL
Press the [RAIN] key to switch between these two functions:
1st HOUR - the total rainfall of the last hour
2. daily - total rainfall from midnight (standard)
3. WEEKLY - the total rainfall for the current week
4. MONTHLY - the total rainfall for the current calendar month
5. total - the total amount of precipitation since the last reset
6th rate - Current precipitation rate (based on 10-minute precipitation data)

TO RESET THE TOTAL RAINFALL RECORD
In normal mode, press and hold the [HISTORY] key for 2 seconds to reset the entire rainfall recording.

NOTE:
To ensure that the data is correct, please reset all rainfall records when you reset your
wireless 7-IN-1 outdoor sensor to another location.

LIGHT INTENSITY, UV INDEX & SUNBURN TIME
This part of the display shows the sunlight intensity, UV index and sunburn time. Press the SUN to change the mode.

LIGHT INTENSITY MODE:
During the light intensity mode, press and hold the [SUN] key for 2 seconds to enter the input mode.
Press the arrow keys to change the unit in sequence: Klux→ Kfc → W/m².
Press the [SUN] key to confirm and exit the setting.

UV-INDEX & SUNBURN

NOTE:
- The sunburn time is based on normal skin type, it is only a reference of UV intensity.

In general, the darker the skin is, the longer (or more radiation) it takes for the effect to be felt on the skin.
- The light intensity function is used to detect sunlight.

MAX / MIN DATA RECORD
The console can record the accumulated MAX / MIN weather data with the corresponding time

TO VIEW THE ACCUMULATED MAX / MIN
In normal mode, press the [MAX / MIN] key to check the MAX/MIN records in the following display
The sequence is: Outdoor MAX temperature Outdoor MIN temperature Outdoor MAX humidity
Outdoor MIN Humidity Indoor Power channel MAX Temperature Indoor Power
Duct MIN temperature internal current duct MAX humidity internal current duct
MIN humidity MAX average wind speed MAX gust MAX FEELS LIKE MIN
FEELS LIKE MAX Dew point MIN Dew point MAX Heat index MIN Heat index
MAX wind chill MIN wind chill MAX UV index MAX light intensity MAX relative
Pressure MIN relative pressure MAX absolute pressure MIN absolute pressure
MAX Rainfall rate.

TO DELETE THE MAX/MIN ENTRIES
Press and hold the [MAX / MIN] key for 2 seconds to reset the current MAX or MIN display.

HISTORICAL DATA FOR THE LAST 24 HOURS
The console automatically saves the weather data for the last 24 hours.
Press the [HISTORY] key to check the beginning of the current hour's weather data, such as the
The current time is 7:25 a.m., 8 March, and the display shows the data from 7:00 a.m., 8 March.

2. press the [HISTORY] key repeatedly to display older measurement values of the last 24 hours, such as 6:00 a.m. (8 March), 5:00 in the morning (8 March), ..., 10:00 in the morning (7 March), 9:00 in the morning (7 March), 8:00 in the morning (7 March)
NOTE:

WEATHER ALARM SETTING
Weather Alert can inform you about certain weather conditions. When the warning criterion is met, the alarm sound is activated and the alarm icon on the LCD flashes.

SET ALARM
Press [ALERT] to select the desired weather alarm value.
Press and hold the [ALERT] key for 2 seconds to enter the current alarm value.
Press the arrow keys to set the value or press and hold the key to change the value quickly.
Press the [ALERT] key to confirm the value.
Press the [ALARM] key to turn the alarm on or off.
6. press the [ALERT] key to move to the next alarm value.
High / Low
Alert on Alert off
Alert on Alert off
Press any key on the front panel to save the alarm on/off status and return to normal mode, or after 30 seconds the display will automatically return to normal mode without pressing any key.

TO TURN THE ALARM OFF
Press the [ALARM / SNOOZE] key to turn off the alarm or have the alarm turned off automatically.
NOTE:
- Once the alarm is triggered, the alarm sounds for 2 minutes, and the corresponding alarm icon and measured values flash.
- The weather warning sounds again when the weather readings fall within the alarm range again.

BACKLIGHTING
The backlight of the main unit can be adjusted with the slide switch [OFF / HI / LO] to adjust
to set the appropriate brightness:
- Move the slider to the [HI] position for brighter backlighting.
- Move the slider to the [LO] position to dim the backlight.
- Move the slider to the [OFF] position to turn off the backlight.

MAINTENANCE

BATTERY CHANGE
The low battery indicator shows that the batteries need to be replaced.

TROUBLESHOOTING

Problem	Solution
Interruption of connection (outdoor sensor)	1. make sure that the sensor is within the transmission range 2. if it still does not work, reset the sensor and synchronise it again with Console.
Interruption of connection (indoor sensor)	1. make sure that the sensor is within the transmission range 2. make sure that the displayed channel is connected to the channel Selection on the sensor 3. if it still does not work, reset the sensor and synchronise it again with Console
No WiFi connection	1. pay attention to the WiFi symbol on the display, it should always on. 2. Make sure that you connect to

	the 2.4G band, but not to the 5G band of your WiFi router.
No data transmission to the weather server	1. make sure that your Station ID and Station Key are correct 2. make sure that the date and time on the tray are correct If are incorrect, you may report old data and not real-time data. 3. make sure that your time zone is set correctly If incorrect, you can report old data, not real-time data.
Incorrect precipitation value	1. please keep the rain collector clean 2. make sure that the tipping bucket inside can function smoothly
Temperature display too high	1. check the ventilation fan inside the radiation shield to make sure it can work properly. 2. make sure that the sensor array is not too close to heat generating sources or constraints, such as buildings, pavement, walls or air conditioning.
Fan does not run	The fan is driven by a solar panel and starts automatically 1. when the sun shines on the Solar panel and 2. the average wind speed is less than 5 m/s for 1 minute.

SPECIFICATIONS

Display console

Dimensions (WxHxD):	approx. 215 x 176.5 x 27 mm
Weight:	approx. 503g (with batteries)
Power supply:	AC 5V, 1A Adapter
Backup power supply:	CR2023 3V
Temperature range:	-5°C to 50°C
WiFi specifications:	WiFi standard 802.11 b/g/n
WiFi frequency:	2.4GHz
Router Requirements:	WPA/WPA2, OPEN, WEP (WEP only hexadecimal password)

Specification of wireless sensor-side communication

Sensor connection:	1 x 7-In-1 outdoor sensor 7 x Thermo-Hygrometer wireless sensor
Frequency:	868Mhz
Radio range:	Up to 100 metres (free field of view)

Time-related function specification

Display time:	HH: MM: SS
Hours Format:	12h (AM/PM) or 24h
Date:	DD / MM or MM / DD
Time synchronisation:	Internet time server
Language Weekday:	EN / DE / FR / ES / IT / NL / RU
Time zone:	+12 to -12 hours
DST (summer time):	Auto / Off

Barometer display & functional specification

Note: The following details are listed as they are displayed or operated on the console

Unit air pressure:	hPa, inHg and mmHg
Measuring range:	540 to 1100hPa
Resolution:	1hPa / 0.01inHg / 0.1 mmHg
Weather Forecast:	Sunny / Clear, partly cloudy, cloudy, rain, rain/storm, snow
Display mode:	Current

Storage mode:	Historical data of the last 24 hours, daily Max / Min
Alarm:	Alarm for pressure change

Indoor/outdoor temperature display & functional specification

Note: The following details are listed as they are displayed or operated on the console.

Temperature Unit:	°C or °F
Display mode:	Current
Storage mode:	Historical data of the last 24 hours, daily Max / Min
Alarm:	Hi/ Lo Temperature Alarm

Humidity indicator and functional specification for indoor and outdoor use

Note: The following details are listed as they are displayed or operated on the console.

Humidity Unit:	%
Display mode:	Current
Storage mode:	Historical data of the last 24 hours, daily Max / Min
	Hi / Lo humidity alarm Alarm

Wind speed and direction display and functional specification

Note: The following details are listed as they are displayed or operated on the console.

Wind Speed Unit:	Mph, m/s, km/h and knots
wind speed range:	0 - 112mph, 50m/s, 180km/h, 97 knots
Display mode:	Gust / Average
Storage mode:	Historical data of the last 24 hours, Max gust / average
Alarm:	Hi Wind speed alarm
Wind direction Display mode:	16 direction or 360 degrees

Rain gauge & function specification

Note: The following details are listed as they are displayed or operated on the console.

Precipitation Unit:	mm or in
Precipitation range:	0 - 19999mm
Display mode:	Current

Storage mode:	Historical data of the last 24 hours, Max
Rain Display Mode:	Hourly / Daily / Weekly / Monthly / Total
Alarm:	Hi Daily Rain

UV INDEX DISPLAY AND FUNCTIONAL SPECIFICATION

Note: The following details are listed as they are displayed or operated on the console.

Display Range:	0 - 16
Display mode:	UV index, sunburn time
Storage mode:	Historical data of the last 24 hours, Max
Alarm:	Hi UV Alarm

LIGHT INTENSITY INDICATOR AND FUNCTIONAL SPECIFICATION

Note: The following details are listed as they are displayed or operated on the console

Light intensity Unit:	Klux, Kfc and W/m2
Range:	0 - 200Klux
Storage mode:	Historical data of the last 24 hours, Max
Alarm:	Hi Light intensity Alarm

Weather index display & function specification

Note: The following details are listed as they are displayed or operated on the console

Weather index mode:	Temperature felt, wind chill, heat index and dew point
Felt Temperature range:	-65 to 50°C
Dew point range:	-20 to 80°C
Heat index range:	26 to 50°C
Wind Chill Range:	-65 to 18°C (wind speed higher than 4.8km/h)
Display mode:	Current
Storage mode:	Historical data of the last 24 hours, max / min
Alarm:	Felt temperature Hi / Lo, Dew point Hi / Lo, Heat index Hi, Wind Chill Lo

7-In-1 Outdoor sensor

Dimensions (W x H x D):	approx. 370.5 x 334 x 144.5mm
Weight:	approx. 1096g (incl. batteries)
Power supply:	3 x AA 1.5V batteries (We recommend the use of lithium batteries)
Weather data:	Temperature, humidity, wind speed, wind direction, precipitation, UV & light intensity
Radio range:	Max 100m (free view)
Frequency:	868Mhz
Transmission interval:	- 12 seconds (UV, light intensity, wind speed, wind direction) - 24 seconds (temperature, humidity, precipitation)
Measuring range:	-40 to 60°C

Thermo-hygrometer indoor radio sensor

Dimensions (W x H x D):	approx. 60 x 113 x 39.5mm
Weight:	approx. 144g (incl. batteries)
Power supply:	2 x AA 1.5V batteries (Lithium batteries are recommended)
Weather data:	temperature & humidity
Radio range:	Max 100m (free view)
Frequency:	868 Mhz
Transmission interval:	60 seconds
Measuring range:	-40 to 60°C

GENERAL SAFETY INSTRUCTIONS

Danger of asphyxiation:

Keep all packaging materials (plastic bags, rubber bands, etc.) away from children. There is a danger of suffocation!

Danger of burns:

Caution! Leaking / leaking battery acid can lead to burns! Avoid contact of battery acid with eyes, mucous membranes and skin. In case of contact, rinse the affected areas immediately with clear water and consult a doctor.

Risk of electric shock:

Children must not be unattended with the device, because the device contains electronic parts which are operated by means of a power source. The device may only be used as described in the instructions. If not, there is a risk of electric shock.

Danger of fire & explosion:

Use only recommended batteries. Never short-circuit the unit or batteries. Never throw the device or batteries into a fire! Overheating and improper handling may result in short circuits which can cause fires and explosions.

Important:

If there is a defect, contact your dealer immediately. Never disassemble the device! The dealer will contact the service department. Never expose the device to water! Protect the device from vibrations. Only use recommended batteries. Never mix batteries - Always replace empty batteries with a complete set of full power batteries. If the unit is not powered for a longer period of time

or is not in use, remove the batteries from the unit. The manufacturer accepts no liability for incorrectly inserted batteries!

Notes on the return of batteries according to §12 BatterieVO: Batteries do not belong in the household waste. Please dispose of all batteries as required by law, disposal in domestic waste is expressly prohibited. Batteries and rechargeable batteries can be dispensed free of charge at municipal collection points or in the shops on the spot.

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WEEE Reg. Nr. 66110125

declaration of conformity

Hereby we declare, HS-Group GmbH & Co.KG, Escherstr. 31, 50733 D-Cologne, that this product is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.
The declaration of conformity for this product can be found at: www.froggit.de or on request.