HONEYWELL
PROFESSIONAL WEATHER STATION
WITH REMOTE CONTROL

TE923W
USER MANUAL

Table of Contents

Introduction

Thank you for selecting the Honeywell Professional Weather Station with remote control. This compact and easy-to-use product features a wide variety of time and weather data, such as precise atomic time, perpetual calendar, air temperature, relative humidity, barometric pressure, wind speed and direction, rainfall, UV levels and etc.

In this package you will find:

One Main Unit (receiver) (TE923WD)

One IR Remote Control (TS607)

One Rain Gauge (remote rain sensor/transmitter) (TS906)

One Anemometer (remote wind sensor/transmitter) (TS805)

One UV (ultraviolet) sensor (remote ultraviolet sensor/transmitter) (TS704)

One Five-Channel Temperature & Humidity Sensor (transmitter) (TS34C)

One CD disk with generic PC connection software with USB cable

One 7.5V AC/DC Adapter

Mounting Hardware with wrench tool

One User Manual

Standard Package Contents

Picture	Components
	**Main Unit**
	**Remote Control**
	**AC/DC 7.5V power adaptor**
	**UV Sensor consists of:** Sensor Unit U-Shaped Sensor holder Circular Ground Stand Stake Base Wall-Mounting Base
	**Thermo Hygrometer Sensor**
	**Rain Gauge consists of:** Funnel shaped top with battery compartment Rain Gauge bucket Bucket see-saw mechanism Protective screen
	**Anemometer consists of:** Wind Cups Wind Vane Anemometer arm Anemometer base
	PC Software

4 screws for securing rain gauge to the flat surface; 4 screws for securing anemometer to vertical surface	**Mounting hardware**
2m (6ft) USB cable	**PC connection cable**

Installation

The Honeywell Professional Weather Station TE923W operates at 433MHz radio frequency, so no wire installation is required between the main unit (receiver) and the remote weather sensors (transmitters).
The remote weather sensors include a thermo-hygrometer (temperature and humidity) sensor, UV (ultraviolet) sensor, anemometer (wind sensor) and a rain gauge (rain sensor). All data measured by these remote sensors is transmitted to the main unit wirelessly, with the operating range up to 328 feet (100 meters) in the open area.
Remote UV sensor, anemometer and a rain gauge must be placed outdoors to measure weather elements.
Remote thermo-hygrometers can be placed indoors or outdoors, depending on the area where the temperature and humidity are intended to be measured. If you intend measuring outdoor temperature and humidity, place the remote sensor outdoors.

Note: It is critical to assemble and power up all of the remote weather sensors **BEFORE** setting up the main unit.
Note: It is critical to power up and test communication between all of the weather sensors and the main unit **BEFORE** permanently mounting them outside.

Before you begin

- We recommend using alkaline batteries for the remote weather sensors and the main unit when temperatures are above 32°F (0°C). We recommend using lithium batteries for the remote weather sensors when temperatures are below 32°F (0°C).
- Avoid using rechargeable batteries. (Rechargeable batteries cannot maintain correct power requirements).
- **ALWAYS** install batteries in the **remote** weather sensors ***before*** the main unit.
- Insert batteries before first use, matching the polarity in the battery compartment
- Remove protective plastic screen from LCD display (if any).
- During an initial setup, place the main unit close to the remote weather sensors.
- After reception is established (all of the remote readings will appear on the main unit's display), position the remote sensors and the main unit within the effective transmission range of up to 328 feet (100 meters). Ideally they should be placed within the line of sight of the main unit. See placement tips in the user manual for each remote weather sensor separately.
- Transmission range may be affected by trees, metal structures and electronic appliances.
- The main unit must be placed indoors.
- The effective operating range may be influenced by the surrounding building materials and how the receiver (main unit) and transmitters (weather sensors) are positioned.
- Place the remote weather sensors so that they face the main unit (receiver), minimizing obstructions such as doors, walls, and furniture.

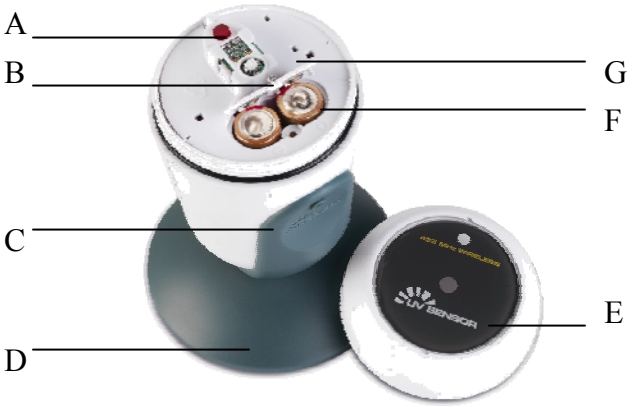
Note: When the temperature falls below freezing, the batteries in the outdoor remote weather sensors may have reduced voltage supply and a shorter effective range. We recommend using lithium batteries at temperatures of 32°F (0°C) and below.

IMPORTANT: Make sure that the remote weather sensors are easily accessible for cleaning and maintenance.
We recommend cleaning the remote weather sensors periodically, as the dirt and debris may affect sensors accuracy.

UV (Ultraviolet) Sensor

FEATURES

- Ultraviolet light levels measurement
- Remote UV levels data transmission to the main unit via 433MHz signal
- 328 feet (100 meters) transmission range
- Low battery indicator
- Three different placement options – ground, stake and wall



A. LED INDICATOR

- Flashes once when the remote sensor transmits a reading to the main unit
- Flashes twice when battery power is low

B. BATTERY COMPARTMENT SCREW

Holds battery compartment door in place

C. U-SHAPED SENSOR HOLDER

Holds UV sensor in upright position

D. CURCULAR GROUND STAND

Secures sensors in the sensor holder on the flat surface

E. UV SENSOR LID

Covers UV sensor and battery compartment

F. BATTERY COMPARTMENT

Holds two AA-size batteries

G. BATTERY COMPARTMENT DOOR

Covers two AA-size batteries

Assembly

- Snap the U-shaped sensor holder onto the UV sensor unit side grooves
- Insert the round end of the U-shaped holder into one of the mounting hardware pieces provided

Battery installation

- Unscrew the lid on top of the UV sensor unit.
- Remove the screw from the battery compartment door with a small Phillips screwdriver
- Insert two 2 “AA” size 1.5V batteries (not included) matching the polarities shown in the battery compartment.
- Replace the battery compartment door and secure the screw
- Screw the UV sensor unit lid back

Mounting

There are three different options available for mounting the UV sensor: ground stand, stake and wall mount.

Ground:

- Insert the U-shaped sensor holder round end into the circular ground stand opening, matching 2 round holes in the opening
- Secure the sensor in a location with a maximum sun exposure throughout the day.

Stake:

- Snap the sharp stake end onto the metal bar and secure with the screws provided.
- Insert the other end of the metal bar into the U-shaped sensor holder and secure with the screws provided.
- Secure the sensor in a location with a maximum sun exposure throughout the day.

Wall:

- Insert the wall mounting end into the metal bar and secure with the screws provided.
- Snap the other end of the metal bar on to the U-shaped sensor holder and secure with the screws provided.
- Secure the sensor in a location with a maximum sun exposure throughout the day.

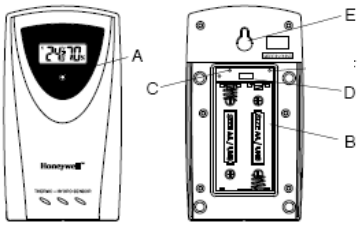
Placement tips:

The UV sensor should be mounted in the area free of sunlight shadows or reflections from the nearby objects.

Thermo-Hygrometer Sensor

FEATURES

- Remote data transmission to the main unit via 433 MHz signal
- 328 feet (100 meters) transmission range without interference
- LCD display of measured temperature and humidity
- Five (5) transmission channels selection
- Case can be wall mounted using built-in hanger



A. LED INDICATOR

- Flashes once when the remote sensor transmits a reading to the main unit.
- Flashes twice when battery power is low.

B. BATTERY COMPARTMENT

Holds two AA-size batteries

C. RESET

Resets all readings

D. CHANNEL SWITCH

Selects the desired channel from 1 to 5

E. WALL-MOUNT RECESSED OPENING

Keeps the remote sensor on the wall

Note: Install the batteries and select the channel before mounting the sensor.

Battery installation

- Remove the screws from the battery compartment with a small Phillips screwdriver.
- Set the channel 1 through 5. The switch is located in the battery compartment. Channel 1 is typically selected if only one remote sensor is being used.
- Install 2 “AA” size alkaline batteries (not included) matching the polarities shown in the battery compartment.
- Replace the battery compartment door and secure the screws.
- Secure the thermo-hygrometer remote sensor in the desired location.

Mounting

- The remote thermo-hygrometer sensor can be placed on the flat surface or mounted on the wall in vertical position
- Use the wall mount hardware and screws provided when mounting the thermo-hygrometer sensor on the wall

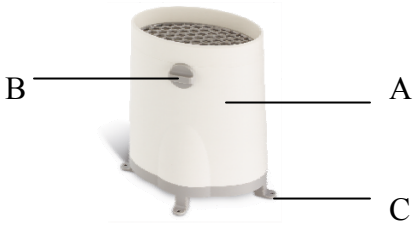
Placement tips:

- The remote thermo-hygrometer sensor should be placed in the area with a free air circulation and sheltered from the direct sunlight and an extreme weather conditions.
- Ideally, place the thermo-hygrometer sensor above the natural surfaces (such as a grassy lawn).
- Avoid placing the thermo-hygrometer sensor near sources of heat such as chimneys and heating elements.
- Avoid any areas collecting and radiating a heat from the sun, such as metal, brick or concrete structures, paving, patios and decks.
- The international standard for the valid air temperature measurements is 4 feet (1.25meters) above the ground.

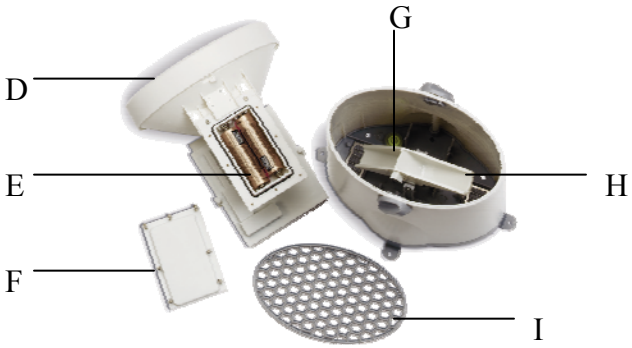
Rain Gauge

FEATURES

- Precipitation measurement
- Remote rainfall data transmission to the main unit via 433 MHz signal
- 100 feet (30 meters) transmission range without interference
- Built-in installation level
- Non-corrosive protective screen



A. Rain gauge bucket
Holds all rain gauge components
B. Knob
Secures the top on the rain gauge bucket
C. Rain gauge bucket feet
Allows securing the rain gauge on its place



D. Funnel-shaped top with battery compartment
Contains battery compartment and rainfall counting electronics
E. Battery compartment
Holds two AA-size batteries
F. Screws
Secure battery compartment cover

G. Built-in leveler
Allows leveling rain gauge on the surface
H. Bucket see-saw mechanism
Collects the rainfall in one of its containers and self-empties once full
I. Protective screen
Protects the rain gauge funnel from debris

Battery installation

- Unlock the funnel-shaped top on the rain gauge by turning both knobs on the sides in an anti-clockwise direction.
- Remove the funnel-shaped top lifting it off the rain gauge bucket.
- Remove 7 small screws from the battery compartment cover using a small Phillips screwdriver
- Insert 2 "AA" size alkaline batteries (not included), matching the polarities as shown in the battery compartment.
- Replace the battery compartment door and secure the screws.
- Insert the funnel-shaped top into the rain gauge bucket and secure it into place by turning the knobs clockwise.

Mounting

- Make sure that the rain gauge bucket is level – check if the ball bearing inside the bucket is at the midpoint of the leveler.
- Place the protective screen over the top to protect the rain gauge from the debris.
- Mount the rain gauge in place using mounting hardware provided.
- Make sure that the rain gauge is in open area where precipitation falls directly into the gauge's bucket, ideally 2-3 feet above the ground.

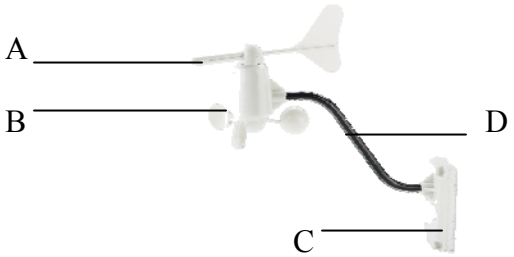
Placement tips

- The rain gauge should be placed in an open area away from the walls, fences, trees and other coverings which may reduce the amount of rain falling into the bucket. Additionally, trees and rooftops may be sources of pollen and debris.
- To avoid the rain shadow effects, place the rain gauge horizontally, on the distance corresponding to two to four times the height of any nearby obstruction.
- It is important that excess rain can flow freely away from the rain gauge.

Anemometer (wind sensor)

FEATURES

- Wind speed and wind direction measurement
- Remote wind speed and wind direction data transmission to the main unit via 433 MHz signal
- Operating range 100 feet (30 meters)
- Wall or pole mount



A. WIND VANE

Measures wind direction

B. WIND CUPS

Measures wind speed

C. ANEMOMETER BASE

- Holds battery compartment
- Allows mounting the anemometer vertically

D. ANEMOMETER ARM

Keeps anemometer assembly together

E. WIND CUPS SHAFT
Holds wind cups on the anemometer arm
F. BATTERY COMPARTMENT
Holds 2 AA-size batteries
G. WALL MOUNT SCREW OPENINGS
Allows securing the anemometer in place
H. BATTERY COVER
Allows securing 2 AA size batteries on the anemometer base

Assembly

- Place the wind cups over the wind cups shaft of the anemometer arm
- Insert the wrench tool provided into the wind cups opening and tighten the small screw inside.
- Test if the wind cups sit secure on the wind cups shaft

Battery installation

- Remove four (4) screws from the battery compartment with a small Phillips screwdriver.
- Open the battery compartment and install 2 "AA" size alkaline batteries (not included) matching the polarities shown.
- Replace the battery compartment door and secure the screws.

Aligning

- Point the wind direction vane to the north (use a compass or map if necessary).
- Press "**SET**" opening located inside battery compartment with a paper clip or similar tool. The "**SET**" opening controls toggling the wind direction between the factory preset or user set.
- Select the factory set mode. It will be also a default setting in the future.
- Set current wind direction as **NORTH**.

Note: Repeat this procedure every time when changing the batteries.

Mounting

Mount the anemometer onto a vertical surface, using the fittings provided.

Placement tips:

- The anemometer should be mounted in an open area with a free air flow; away from the nearby trees, buildings or other structures.
- Aim for a maximum exposure of the anemometer to the most common wind directions in the area.
- It is suggested mounting anemometer at 33 feet (10meters) above the ground in unobstructed area.

Main Unit

The main unit measures pressure, indoor temperature, humidity, and receives atomic time data from the US Atomic Clock and all remote weather sensors. It should be placed indoors.

FEATURES

Time

- Precise time and date set via RF signals from US Atomic clock
- 12 or 24 hour time format
- Manual adjustment of time and date
- Calendar displaying date with month and day in 6 languages English, German, French, Italian, Spanish and Dutch
- Sunrise/set calculation for over 100 pre-programmed world cities in accordance with the geographical information entered by the user
- Moon Phase calendar and historical data for the past and future 39 days
- Dual crescendo alarms with programmable snooze

Weather

- Weather forecast for the next 12 to 24 hour in seven large icons: Sunny, Partly Cloudy, Cloudy, Light Rain, Heavy Rain and Snowy
- Barometric pressure in imperial or metric units
- Altitude adjustment for pressure compensation
- 24 hour barometric pressure history chart
- Multiple weather alarms
- Indoor/Outdoor Temperature & Humidity in up to 5 remote locations (additional sensors required)
- Dew point and comfort level indicators
- Wind speed and wind gust averages and memory
- Wind direction
- Rainfall amount with minimum and maximum memory
- UV intensity with daily and weekly highs and lows
- 200 weather records without PC connection
- PC software (included) and USB port
- Operating range from 100 feet (30 meters) up to 328 feet (100 meters)

Display

- Light sensor detects low light conditions and LCD lights up automatically when adapter is connected
- Infrared remote control of all display functions

Power

- AC/DC adapter for automatic remote control

- 4 AA batteries

Battery installation

- Open the battery compartment door on the back of the main unit.
- Insert four (4) AA size batteries according to the polarities shown and replace the battery compartment door.
- Connect 7.5 V AC/DC adapter provided to the main display unit and plug into to the wall power outlet.

Note: **The AC/DC adaptor connection is required for automatic backlight control and a handheld remote control functions. If the main unit operates solely on the battery power, the auto backlight control and handheld remote control functions will be disabled.**

- When placing the main unit on the table or other horizontal surface, unfold the table stand adjusting it to the desired viewing angle.
- When mounting the main unit on the wall or vertical surface, fold the table stand back into the unit and use the mounting hardware provided.

Placement tips

- Make sure that the main unit is locating within the operating range of all remote weather sensors.
- Ideally the remote weather sensors should be mounted within the line of sight of the main unit.
- Transmission range may be affected by trees, metal structures and electronic appliances.
- Test reception before permanently mounting all the remote weather sensors.

Avoid placing the main unit in the following areas:

- Direct sunlight and surfaces emitting and radiating heat, such as heating ducts or air conditioners.
- Areas with interference from the wireless devices (such as cordless phones, radio headsets, baby listening devices) and electronic appliances.

Operation

Once the main unit is powered, the display will show all available LCD segments for a moment.

IMPORTANT: All of the display functions will be locked, allowing setting your local altitude and pressure parameters. The locked display will show the pressure icon and abbreviation **"inHg"** flashing, indoor temperature and humidity readings, default time and default sunset/sunrise time.

If pressure and altitude are not configured during this time, the unit will self-calibrate in a few minutes and show the default settings for the pressure and altitude (sea level) and all remote weather sensors readings.

IMPORTANT: If not set during the initial setup, the altitude cannot be adjusted or set at

any other time. In order to set the altitude, you will have to restart the main unit completely.
To set the pressure & altitude units and program your altitude, use the handheld remote control or main unit control panel:

Buttons and Controls
Most of the handheld remote control buttons are corresponding to the main unit controls. To expose the main unit control buttons, press the **OPEN** button on the upper right corner of the main unit and the controls' cover door will open.

Main unit and handheld remote control adequate buttons

A. UP	Selects the next available mode anti-clockwise Increases parameters
B. DOWN	Selects the next available mode clockwise Decreases parameters
C. SET	Rotates display for current mode If depressed and hold, enters into the programming mode or changes parameter's units Confirms set parameters
D. MEMORY	Allows displaying the moon phase, UV, temperature, humidity, rainfall and wind memory records

E. HISTORY	Allows displaying the sea-level pressure history
F ALARM/CHART	Allows displaying the time alarms and alerts for the temperature, rainfall and wind. If depressed and hold, allows entering into the alarm/alert programming mode When depressed and hold in pressure and forecast mode, allows viewing of the different bar charts
G. CHANNEL	Changes the temperature and humidity channel Enables the temperature and humidity channel auto-scan mode
H. LIGHT/SNOOZE	Enables a backlight for 5 seconds Snoozes the alarms

Main unit only

I. OPEN	Opens the control buttons panel on main unit
J. LIGHT SENSOR – AUTO, ON, OFF	Toggles the light sensor to automatic, on or off setting
K. SENSITIVITY – HIGH/LOW	Adjusts the light sensor sensitivity

Handheld remote control only

Temperature and Humidity Mode	Recalls the Temperature and Humidity Mode
Wind Mode	Recalls the Wind Mode
UV Mode	Recalls the UV Mode

 **Pressure and Weather Forecast Mode**	Recalls the Pressure and Weather Forecast Mode
 **Rain Mode**	Recalls the Rain Mode
 **Sunrise/Sunset Mode**	Recalls the Sunrise/Sunset Mode
 **Clock and Alarm Mode**	Recalls the Clock and Alarm Mode
 **Change Bar-chart Display**	Changes bar-chart display to history for Sea-level pressure, channel 1 temperature or channel 1 relative humidity

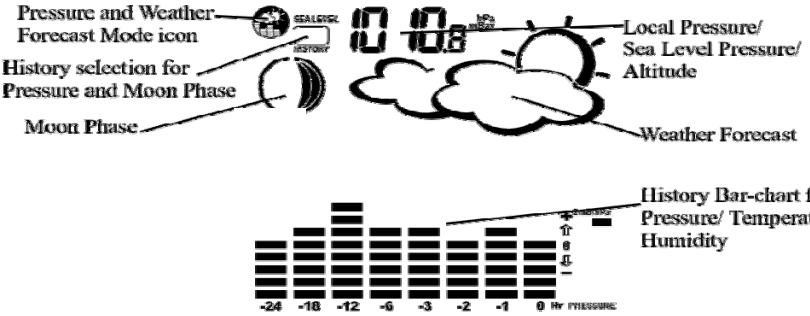
Navigating through the modes

The main unit has seven (7) different modes (windows) each displaying the separate data category. When a specific mode is selected the corresponding icon will start flashing. Press **UP** button on the main unit or the handheld remote control to cycle through the modes clockwise or **DOWN** anti-clockwise.

  **Pressure and Weather Forecast Window**

Displays:

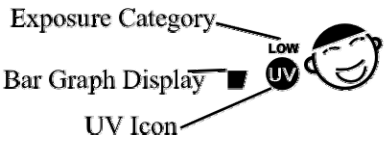
- Current pressure and history bar-chart
- Weather forecast
- Moon phase

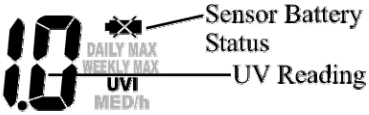


UV Window

Displays:

- UV index or Minimum Ultraviolet Exposure
- Daily Maximum
- Weekly Maximum
- Remote UV sensor battery status





Clock and Alarms Window

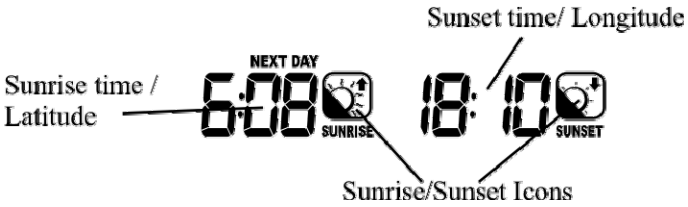
Displays:

- US Atomic Time clock with time and calendar
- Single alarm, weekday alarm and ice warning alarm (pre-alarm)

Sunrise/Sunset Window

Displays:

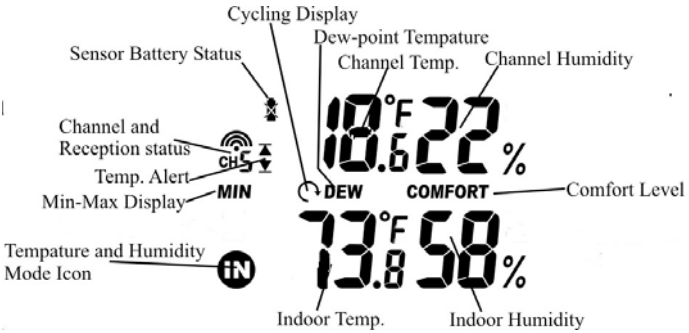
- Sunrise and sunset times
- Longitude and Latitude



IN CH Temperature and Humidity Window

Displays:

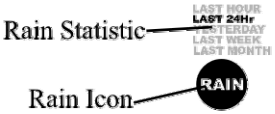
- Temperature and humidity readings for indoor and selected channel
- Comfort level indication
- Dew point temperature
- High and Low temperature alerts
- Remote Thermo-Hygrometer sensor battery status

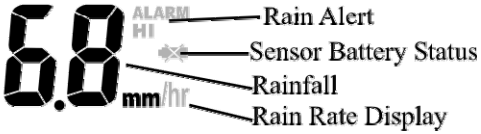


RAIN Rain Window

Displays:

- Precipitation amount for the last hour, day, yesterday, last week and last month
- Rainfall alert
- Remote rain gauge battery status





Wind Window

Displays:

- Wind Chill temperature
- Temperature at place of anemometer
- Wind direction
- Wind speed
- Wind gust speed
- Alert for wind speed and wind gust speed
- Remote anemometer battery status

Customizing your Weather Station

It is required to program:

- The pressure parameters during Initial Setup (See Pressure and Weather Forecast Mode P.23)
- The time, the date and the weekday language (Clock and Alarm Mode: P.27)
- The location data (Sunrise/Sunset Mode: P.30)

Optional:

- The time alarms (Clock and Alarm Mode: P.27)
- The temperature alerts (Temperature and Humidity Mode P.32)
- Daily rainfall alerts (Rain Mode P.34)
- Wind alerts (Winds Mode: P.35)

LED Backlight Options

The main unit backlight can be turned on, off or automatically toggled depending on the environment light conditions. Use the light sensor switch at the back of the main unit to select a desired backlight setting.

For the automatic backlight control, the sensitivity of the light sensor can be adjusted to high or low using the switch, located on the back panel.

Note: For an automatic control function the main unit must be plugged into the wall power outlet via the AC/DC adaptor provided.

Connecting the Weather Station to a PC

Data collected by the weather station can be displayed on PC by connecting the main unit to the computer via USB cable.

- Install the software provided with the weather station according to the instructions in the software manual.
- Connect the main unit to the computer using the USB cable provided.

Using Different Weather Modes

Pressure and Weather Forecast Mode

It indicates the current barometric pressure, the sea level pressure, the weather forecast and the moon phase.

A number of historical statistics can also be viewed, including the sea-level pressure for the past 24 hours, moon phase for the past and following 39 days, as well as a pressure/ temperature/ humidity history bar-chart.

Pressure can be displayed inHg, hPa/mBar or mmHg, and altitude can be displayed in meters or feet.

Accessing Pressure and Weather Forecast Mode

From the main unit: Press **UP** or **DOWN** until the weather forecast icon  on the upper left of the display starts flashing.

From the remote control: Press  .

Setting Pressure Parameters during initial setup

IMPORTANT: During the main unit initial setup, after main unit powered up, all of the functions in Pressure and Weather Forecast mode will be locked for a short time, until the pressure settings are configured. The locked display will show the pressure icon and abbreviation **"inHg"** flashing.

To unlock the mode, set the pressure and altitude units and program the altitude.

- Press **UP** or **DOWN** button selecting the pressure in inHg, hPa/mBar or mmHg
- Press **SET** to confirm and move to the altitude unit selection mode
- Press **UP** or **DOWN** button selecting the altitude unit in feet or meters.
- Press **SET** button to confirm and move to the altitude programming mode.
- Press **UP** or **DOWN** to adjust an altitude value. Press and hold either button for the advanced setting.
- Press **SET** to confirm the programming.

IMPORTANT: After the initial setup the altitude cannot be adjusted anymore. In order to adjust the altitude, you will have to restart the main unit completely.

Viewing the Pressure and Altitude Information

To view a pressure or altitude information, press **SET** button rotating between the sea level pressure, local pressure and local altitude screens.

Sea Level Pressure Setting

- Press **SET** button until the sea level pressure with "**SEA LEVEL**" is displayed.
- Press and hold **SET** until the pressure digits are flashing.
- Set the sea level pressure by pressing **UP** or **DOWN** buttons. Press and hold either button for the quick digits advance.
- Press **SET** to confirm selection.

Setting the Pressure and Altitude Unit

- Press **SET** until the local pressure with the word **"LOCAL"** is displayed.
- Press and hold **MEMORY** until the pressure unit is flashing.
- Set the local pressure units by pressing the **UP** or **DOWN** buttons to adjust the pressure value.
- Press **MEMORY** to confirm your selection.
- Press **SET** button until the local altitude value will be displayed
- Press and hold **MEMORY** until the altitude unit is flashing.
- Set the altitude unit in meters or feet by pressing the **UP** or **DOWN**.
- Press **MEMORY** to confirm your selection.
- Press **SET** until the sea level pressure with the word **"SEA LEVEL"** is displayed.
- Press and hold **MEMORY** until the pressure unit is flashing.
- Set the sea level pressure unit by pressing **UP** or **DOWN**.
- Press **MEMORY** to confirm your selection.

Viewing the Sea Level Pressure History

- In all modes, press **HISTORY** button entering the sea level pressure display.
- When the **SEA LEVEL** is displayed, press **HISTORY** repeatedly viewing the sea level pressure history for the past 24 hours in hour increments.
- If no buttons are pressed for 5 seconds, the unit will automatically return to the Pressure and Weather Forecast Mode.

Viewing the Pressure, Temperature and Humidity Bar Charts

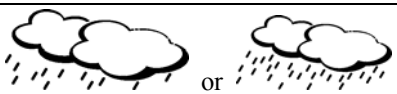
The bar chart in Pressure and Weather forecast window can be configured to display a historical data for the sea level pressure and temperature or humidity for channel 1.

After selecting the Pressure and Weather Forecast Mode, press and hold **ALARM/CHART** button, or press UNIT on the handheld remote control to toggle the bar chart between the sea level pressure with a word "**PRESSURE**" displayed at the right bottom corner of the chart, temperature with a thermometer icon and "**CH1**" and a humidity with "**RH"** icon and "**CH1**".

Viewing the Moon Phase History and Weather Forecast

- After selecting the Pressure and Weather Forecast Mode, press **MEMORY**, so **"+ 0 days"** is flashing.
- Press **UP** or **DOWN** selecting from today's date a future (+) or past (-) days and the corresponding moon phase will be displayed. Press and hold either button for a quick advance.
- To exit, press **MEMORY** button.

The Weather Forecast Display Understanding

Display	Weather Forecast
	Sunny
	Partly Cloudy
	Cloudy
	Light Rain or Heavy Rain
	Unstable Weather

	Snow

Note: The weather forecast accuracy is approximately 70%.
Display shows forecasted, not current conditions. The SUNNY icon indicates clear weather, even when displayed during the night-time.

Understanding the Moon Phase Diagram

UV Mode
The current UV intensity is indicated by the numerical value and more intuitive display, by categorizing it into the levels "**LOW",** "**MED**", **HIGH**", **V. HIGH**" and **EXTREME**. It is also represented by a comfort icon that corresponds to different levels.
The main unit records the daily and weekly maximum UV intensity. Values may be displayed in MED/h or UVI.

Accessing UV Mode

From the main unit: Press **UP** or **DOWN** until the UV icon UV on the display will flash. From the handheld remote control: Press UV.

Viewing UV Statistics
In UV Mode press the **MEMORY** button viewing either current UV intensity, daily Maximum UV intensity with "**DAILY MAX**" displayed or weekly Maximum UV intensity with a "**WEEKLY MAX**" displayed.
Resetting the UV Statistics Memory
In UV Mode, press and hold **MEMORY** to reset all UV statistics.
Setting Units for UV Display (MED/h or UVI)

In UV Mode, press and hold **SET** to convert units between MED/h and UVI.

Clock and Alarm Mode

Manual Settings

The main unit can be manually set to display the time, calendar or UTC time. There are three time alarms available on the main unit: Weekday alarm (**W**), Single alarm (**S**) and Ice Warning Alarm (**Pre-Al**).

- If **Weekday** alarm is activated, it will sound at the set time and the alarm icon will flash Mondays through Fridays.
- If **Single** day alarm is activated, it will sound at the set time and the alarm icon will flash only for this specific day and will not activate on subsequent days.
- The **Ice Warning Alarm** is activated at programmed time interval (from 15 to 90 minutes) before the weekday or single alarm, if channel 1 temperature falling to freezing and below.

Note: **Ice Warning Alarm can be set only if one or both - Weekday or Single alarm are programmed.**

The snooze duration for listed alarms can also be programmed up to 15 minutes.

Accessing Clock and Alarm Mode

From the main unit:

Press **UP** or **DOWN** until the clock icon  next to the time/date display will flash.

From the handheld remote control: Press  .

Setting the time, date and language

- In the Clock and Alarm Mode, press and hold **SET** button until the day of week language abbreviation **"ENG"** will flash.
- Press the **UP** or **DOWN** selecting the day of the week in English, German, French, Italian, Spanish or Dutch
- Press **SET** to confirm selection.
- Select the City Code for your area by pressing **UP** or **DOWN.** Refer to P.40 for a list of available codes.
- Press **SET** to confirm the selection and enter to the latitude and longitude programming mode

If you selected the **USR** as a city code**,** you will be prompted to enter the latitude,

longitude, Time Zone and select the Daylight Savings Time on or off.

- Press **UP** or **DOWN** to adjust the latitude. Press and hold either button for quick digits advance.
- Press **SET** to confirm the selection.
- Continue setting the longitude using the same technique.
- Set the Time Zone by pressing **UP** or **DOWN** to adjust the time in 30 min intervals. Press and hold either button for quick digits advance.
- Press **SET** to confirm selection.

If the **USR** was selected as a city code or your city is located in the Daylight Savings zone you would need to set the Daylight Saving Time Option:

- Press **UP** or **DOWN** to enable of disable the DST option. Press and hold either button for quick digits advance.
- Press **SET** to confirm selection.
- Continue setting the year, month, day, calendar format (day/month or month/day), time format (12 or 24 hours), local hour and minutes, using the same technique.

After programming is complete the display will return to the default Clock and Alarm Mode.

Note: Press and hold **SET** anytime during the setup to return to normal Clock and Alarm Mode and all previous settings will be cancelled.

Different Clock and Calendar Displays

In the Clock and Alarm Mode press **SET** selecting either:

- Hour and Minutes with the Day of the week
- Hour and Minutes for UTC (Coordinated Universal Time)
- Hour and Minutes with the City abbreviation
- Hour and Minutes with the Seconds
- Month with the day and a year or Day with Month and a year.

Enabling or Disabling the Time Alarms

- Press the **ALARM/CHART** to display the Weekday Alarm or Ice Warning Alarm (Pre-Alarm) time. If these alarms are not set, the abbreviation **OFF** will be displayed.
- To enable or disable any of these alarms, press **UP** or **DOWN**.

Note: Press **SET** anytime during alarm selection mode to return to the default clock display.

Programming Time Alarms

- In the Clock and Alarm Mode, press the **ALARM/CHART** selecting the desired alarm.
- Press and hold **ALARM/CHART** button until the hour digit will flash

- Set the alarm hour using the **UP** or **DOWN**. Press and hold either button for quick digit advance.
- Press **ALARM/CHART** to confirm selection.
- Set the alarm minutes using **UP** or **DOWN**. Press and hold either button for quick digit advance.
- Press **ALARM/CHART** to confirm selection.
- Set a Snooze interval (all three alarms share same snooze time duration) using **UP** or **DOWN**. Press and hold either button for quick digit advance.
- Press **ALARM/CHART** to confirm your selection.

After programming is completed, the display will return to the alarm selection screen.
Note: Pre-alarm (Ice Warning Alarm) cannot be set if weekday alarm or single alarm is not enabled.

Disabling or Enabling Snooze function

To enable a snooze function press **LIGHT/SNOOZE** button.
Note: Alarm will automatically enter the snooze mode if no buttons are pressed after the alarm sounds for 2 minutes. This will occur for a maximum of three times.

To disable alarm(s):

Press **ALARM/CHART** to disable the alarm (s).
Note: For weekday alarm, pressing **ALARM/CHART** will only disable the alarm for the current day. The alarm will activate again on the next day, Monday through Friday.

Atomic Time Reception

The main unit synchronizes the time and date with radio clock broadcasts maintaining the atomic time precision.

WWVB RADIO CONTROLLED TIME

The NIST (National Institute of Standards and Technology) radio station (WWVB) is located in Ft. Collins, Colorado. It transmits an exact time signal continuously throughout the most of the continental United States at 60 KHz frequency. The Atomic Time Clock in your weather station can receive this WWVB signal through the internal antenna from up to 2,000 miles away. Due to the nature of the Earth's ionosphere, reception can be limited during the daylight hours. The radio controlled clock will search for an alternate station that receives the atomic time signal from the NIST Atomic clock in Boulder, Colorado.
The WWVB tower icon on the unit's display will flash indicating a radio signal reception from the WWVB station. If the tower icon is not fully lit, or if the time and date are not set automatically, please consider the following:

- During night-time hours, atmospheric disturbances are typically less severe and radio signal reception may improve. A single daily reception is sufficient enough to keep the clock accuracy within 1 second.

- Make sure the unit is positioned at 8 feet (2 meters) distance from any interference source such as a TV, computer monitor, microwave, etc.
- Within concrete wall rooms such as basements or office buildings, the received signal may be weakened. Always place the Projection Clock near the window for better reception.

Once the atomic time signal is received, the date and time will be set automatically, and the [ ] icon will appear.
After the clock is set manually, place the main unit by the window for the better reception.
The atomic clock receiver is programmed that it will continue to search for the atomic time signal daily for every hour between 1:00 am and 4:30 am.
Once the time signal has been successfully received, the time and date will be updated automatically.
To enable or disable the atomic time receiver:

- Press and hold **UP** - if atomic time reception is activated, a triangular tower icon will start flashing next to the clock icon. If reception is disabled, the triangular tower icon will disappear.

Icon	Atomic Time Reception Strength
(Flashing)	Undefined data
	Reception failed for 24 hours
	Weak signal, but can be decoded
	Strong signal

Sunrise/Sunset Mode
The main unit is able to calculate the sunrise and sunset times depending on the user defined location. The location data contains from the longitude, latitude, time zone and DST (Daylight Saving Time).
Select the closest to your area city code and the main unit will automatically generate all of the correct data for specified location.
If you cannot find the closest city code or would like to enter your specific location, select **"USR**" as the city code during the setup.
A search function is also available. It allows viewing the sunrise/sunset times for different

dates.

Accessing Sunrise/Sunset Mode

From the main unit: Press **UP** or **DOWN** until the sunrise and sunset icons  on the lower left of the display will start flashing.

From the remote control: Press  .

Programming the Location Data

- In Sunrise/Sunset Mode, press and hold **SET** to enter the location programming mode until the city code in the Time and Alarm display will flash.
- Select the city code closest to your area by pressing the **UP** or **DOWN.** Refer to P.40 for a list of available codes. The corresponding longitude and latitude will be displayed in Sunrise/Sunset window along with the city code.
- If you wish to enter the geographical coordinates yourself, select the **"USR"** as the city code.
- Press **SET** to confirm your selection and enter into the geographical coordinates programming mode

Set Degree of Latitude

- Press **UP** or **DOWN** to adjust the digits. Press and hold either button for fast advance.
- Press **SET** to confirm your selection.
- Repeat above procedure to set latitude and longitude minutes, longitude degrees, time zone, and DST selection.
- Once programming is completed, the display will return to the Sunrise/Sunset Mode.

Note: Press and hold **SET** anytime during the setup to return to normal Clock and Alarm Mode. All settings will be cancelled.

Viewing the Location Data

In Sunrise/Sunset Mode press **SET** button to select between the time and sunrise/ sunset times mode display, calendar and sunrise/ sunset times display and a calendar and longitude/ latitude display.

Viewing Sunrise/Sunset Times for Different Dates

- In Sunrise/Sunset Mode, press the **MEMORY** button until the date will flash.
- Press **UP** or **DOWN** to adjust the date. Press and hold either button for fast digits advance.

- The corresponding sunrise and sunset times will be displayed for the selected date.
- Press **MEMORY** or **SET** to return display to the Sunrise/Sunset Mode.

Understanding of the Sunrise/Sunset Display
The sunrise time displayed in the morning will be different from the one displayed in the afternoon/night:
From 12 am to 12 pm the current day sunrise time will be displayed.
From 12 pm to 12am the next day sunrise time with the **"NEXT DAY**" icon will be displayed
At some locations, especially with high latitudes, sunrise and sunset events may not occur within 24 hours.

Display	**Sunrise status**	**Display**	**Sunset status**
FULL	Sunrise for the previous day	FULL	Sunset on the following day or later
- - - -	No sunrise for the whole day	- - - -	No sunset for the whole day

Temperature and Humidity Mode
The weather station supports up to 5 remote thermo hygrometers, corresponding to a separate channel of the temperature and relative humidity display. The temperature can be displayed in Celsius (ºC) or Fahrenheit (ºF).
The main unit carries the temperature and humidity sensor and uses this indoors data to calculate an indoors comfort level - Wet, Comfort or Dry.
A temperature alert function is available for each channel. It can be programmed to sound if the channel temperature exceeds or falls below the pre-set upper and lower limit.
Note: The temperature alerts have a 0.5 ºC deviation to prevent them from sounding due to small temperature fluctuations that are close to the set alert value. This means that after the temperature reaches the alert temperature, it will have to fall below the alert temperature plus the deviation (0.5°C) to activate the alert.

Accessing Temperature and Humidity Mode

From the main unit: Press **UP** or **DOWN** until the **IN** icon 

on the upper right will

flash.

From the remote control: Press 

.

Viewing Temperature and Humidity for each Channel
Static Display:
In Temperature and Humidity Mode, press the **CHANNEL** button to recall a different channel.

Channel Auto-Scan Display:
To enable automatic scan of the different channels, press and hold **CHANNEL**, until the ↻ icon is displayed. Each valid channel will be alternately displayed with a 5 seconds delay.

Recalling of Temperature and Dew Point Displays
In Temperature and Humidity Mode press the **SET** button to recall temperature and relative humidity or dew point and relative humidity.

Set the Temperature in Celsius or Fahrenheit.
In Temperature and Humidity Mode, press and hold **SET** to toggle the temperature in Celsius (ºC) or Fahrenheit (ºF).

Activating/Deactivating the Temperature Alerts
In Temperature and Humidity Mode, press the **ALARM/CHART** to recall a current temperature for the corresponding channel, the upper temperature alert with ▲icon (if disabled, displays **OFF**), or lower temperature alert with ▼ icon (if disabled, displays **OFF**).
Once the above alerts are displayed, press the **UP** or **DOWN** to enable or disable the corresponding alert.

Programming the Temperature Alerts

- In the Temperature and Humidity Mode, press **ALARM/CHART** selecting the desired alarm.
- Press and hold **ALARM/CHART** button until the remote temperature and ▲or ▼ icon starts flashing.
- Adjust the temperature digits for the Temperature Alert using the **UP** or **DOWN**. Press and hold either button for fast digits advance.
- Press the **ALARM/CHART** to confirm selection and return to the temperature alert selection screen.

Disabling Temperature Alarm(s)
In the Temperature & Humidity Mode press the **ALARM/CHART** to disable the alarm(s).
Viewing the Max/Min Channel Temperature and Humidity
In the Temperature & Humidity Mode press the **MEMORY** button to recall a current temperature and humidity, minimum temperature and humidity or maximum temperature and humidity at the remote location.
Resetting the Remote Temperature and Humidity Memory
In the Temperature and Humidity Mode, press and hold **MEMORY** button to clear memory for all channels.

Remote Sensor Status
The wave icon above the current channel display shows the connection status of the corresponding remote sensor:

Icon	Status
	Searching for the signals from the remote sensor
	Corresponding remote sensor signal received successfully
	No signals received for over 15 minutes

All Remote Sensor Signals Search Activation
The main unit can be manually activated to search for the signals from all remote sensors. Press and hold **DOWN** button to enable the search.

Rain Mode
The main unit records the total amount of the rainfall for the last hour, 24 hours, past day, past week and the past month. The rainfall can be displayed in mm or inches.
There is a daily rainfall alert that can be programmed in the unit if the daily rainfall exceeds a pre-programmed limit.
Accessing Rain Mode

From the main unit: Press **UP** or **DOWN** until the **RAIN** icon 

on the display starts flashing.From the remote control: Press 

.

Viewing Rain Statistics

In the Rain Mode, press either **SET** or **MEMORY** button to recall a rain statistics for the past hour, past 24 hours, yesterday, past week or past month.

Tip: For the rain rate estimate the **Last Hour** rainfall value is understood as "inch/hr" or "mm/hr".

Resetting the Rainfall Statistics Memory

In the Rain Mode, press and hold **MEMORY** to reset all rainfall statistics.

Setting Units for the Rain Display in inches or mm

In the Rain Mode, press and hold **SET** button to toggle rainfall data units between mm and inches.

Enabling or Disabling the Daily Rainfall Alert

- In the Rain Mode press the **ALARM/CHART** to display either the current rainfall statistics or the daily rainfall alert with "**ALARM HI**" displayed.
- If the alert is disabled, the "**OFF**" will be displayed; otherwise the rainfall alert value will be shown.
- When the rainfall alert is displayed, press the **UP** or **DOWN** to enable or disable it.

Setting up the Daily Rainfall Alert

- In the Rain Mode, press **ALARM/CHART** to display the rainfall alert.
- Press and hold **ALARM/CHART** until the rainfall alert "**ALARM HI**" will flash.
- Set the desired value for the Rainfall Alert by using the **UP** or **DOWN**. Press and hold either button for fast digits advance.
- Press **ALARM/CHART** to confirm selection and the unit will return to the rainfall alert display.

Disabling the Daily Rainfall Alert

In the Daily Rainfall Alert Mode press the **ALARM/CHART** to disable the alert.

Wind Mode

The wind direction is shown by an animated compass display. Its angle can be displayed as compass points (i.e. NW) or in bearings starting from north (i.e. 22.5º).

The upper left section of the wind mode can be programmed to display either a temperature at the place of anemometer or the temperature adjusted to the wind chill factor.

The lower left section of the wind mode indicates the average wind speed for the past 10 minutes, as well as gust, wind speed alert and gust alert information. It can also show records of the maximum wind speed and wind gust collected during the day.

The wind speed and gust alert functions can be programmed to alert you if the wind speed or gust exceeds a pre-configured limit. The wind speed can be displayed in km/h, mph, m/s or knots.

Note: The wind speed alert has a 5 mph deviation and the wind gust speed alert has a 7 mph deviation. It is set to prevent the alerts from sounding all the time due to small fluctuations close to the alert value. This means that after the wind speed reaches the alert value, it will have to fall below the alert value plus deviation to activate the alert.

Accessing Wind Mode

From the main unit: Press **UP** or **DOWN** until the WIND icon 

on the display starts flashing. From the remote control: Press  .

Configuring Wind Display

In the Wind Mode press the **SET** button to recall either a wind chill temperature with wind direction in bearings, a wind chill temperature with a wind direction in compass points, a temperature at anemometer and wind direction in compass points or a temperature at anemometer and wind direction in bearings.

Setting Units for the Wind Speed in km/h, mph, m/s or knots

In the Wind Mode, press and hold **SET** to set the wind speed units in km/h, mph, m/s or knots.

Viewing Wind Statistics

In the Wind Mode, press the **MEMORY** button to recall a current wind speed, a daily maximum wind speed with "**DAILY MAX**" displayed, a gust speed with a "**GUST"** displayed and a daily maximum gust speed with a "**GUST DAILY MAX"** displayed.

Resetting the Wind Statistics Memory

In the Wind Mode, press and hold **MEMORY** to reset all wind statistics.

Enabling or Disabling the Wind Alerts

In the Wind Mode press the **ALARM/CHART** to recall a current wind speed, a wind speed alert with the "**ALARM HI"** displayed or gust alert with the **"GUST ALARM HI**" displayed.

If the alert is disabled, **"OFF"** will be displayed; otherwise the alert value is shown. When a wind alert is displayed, press the **UP** or **DOWN** to activate or deactivate it.

Wind Alerts programming

- In the Wind Mode, press **ALARM/CHART** to select the desired alarm.
- Press and hold **ALARM/CHART** button until alert and corresponding icon will

flash.

- Set the alert using the **UP** or **DOWN**. Press and hold either button for fast digits advance.
- Press **ALARM/CHART** to confirm your selection and return to the wind alert selection screen.

Disabling the Wind Alert

To disable wind alert press **ALARM/CHART**.

Maintenance

Changing Batteries

The battery status of each weather sensor is checked every hour. If the low battery indicator lights up, replace the batteries in the corresponding unit.

Changing Batteries in the Main Unit

- First connect the AC/DC adaptor provided to the main unit to avoid losing any data.
- Remove the battery compartment door on the back and replace all batteries. Do not mix old and new batteries.
- Replace the battery compartment door.

Changing Batteries in Remote Weather Sensors

- Replace the batteries following the setup instructions for the corresponding sensor.
- When the batteries are properly installed, the remote weather sensor will resume sending signals to the main unit.
- To enforce an immediate remote signals search, press and hold **DOWN** on the main unit.

Cleaning

The main unit and outer casings of the remote weather sensors can be cleaned with a damp cloth. Small parts can be cleaned with a cotton tip or pipe-cleaner.

Never use any abrasive cleaning agents and solvents. Do not immerse any units with electronic parts in water or under running water.

Anemometer

Check if the wind vane and wind cups can spin freely and are free from dirt, debris and spider webs.

Rain Gauge

Checking and cleaning the rain sensor in a timely manner will maintain an accuracy of the precipitation measurements.

- Detach the protective screen and lid.
- Clean with soapy water and a damp cloth, removing dirt, leaves or debris

- Clean small holes and parts with Q-tips or pipe-cleaner.
- Watch out for spiders or insects that might have crawled into the funnel.
- Clean the swinging mechanism with a damp cloth.

Troubleshooting

Q: "The display shows dashes "---" for weather parameter(s)"

A: The display will show "- - -" when the wireless connection with the remote sensor is lost for the following periods:
Thermo-Hygrometer: 15 minutes
UV Sensor: 30 minutes
Anemometer (Wind Sensor):15 minutes
Rain Gauge (Rain Sensor):30 minutes
Check or replace the batteries for the corresponding sensor. Then press and hold **DOWN** on the main unit or handheld remote to enforce a search for all remote signals.
If this does not work, check the wireless transmission path from the corresponding weather sensor to the main unit and change their locations if necessary.
Although wireless signals can pass through solid objects and walls, the weather sensor should ideally be within the line of sight of the main unit.
The following may be the cause of reception problems:

- The remote weather sensor and a main unit are too far from each other.
- The signal shielding materials, such as metal surfaces, concrete walls or dense vegetation, are in the path of transmission.
- There is interference from the wireless devices (such as cordless phones, radio headsets and baby listening devices) and electronic appliances.

Q: "The weather readings on my weather station are different from the TV, radio or official weather reports."

A: The weather data may vary considerably due to different environmental conditions and placement of the weather sensors.
Check the placement tips included in this manual to site your weather sensors in the best possible way.

Q: "The weather forecast is inaccurate."

A: The weather forecast predicts the weather for the next 12 to 24 hours, and does not reflect current weather conditions.

PRECAUTIONS

This product is engineered to give you years of satisfactory service if handled carefully. Here are a few precautions:

- Do not immerse the units in water.
- Do not clean the units with abrasive or corrosive materials. They may scratch the plastic parts and corrode the electronic circuits.
- Do not subject the product to excessive force, shock, dust, temperature, or humidity, which may result in malfunctions, shorter lifespan, damaged batteries, and damaged parts.
- Do not tamper with the product’s internal components. Doing so will invalidate the warranty and may cause damage. The product contains no user-serviceable parts.
- Use only fresh batteries. Do not mix new and old batteries.
- Read the user's manual thoroughly before operating the product.

Appendix - City Codes

US and Canadian Cities

City	Code	Zone	DST
Atlanta, Ga.	ATL	-5	SU
Austin, TX	AUS	-6	SU
Baltimore, Md.	BWI	-5	SU
Birmingham, Ala.	BHM	-6	SU
Boston, Mass.	BOS	-5	SU
Calgary, Alba.,	YYC	-7	SU
Chicago, IL	CGX	-6	SU
Cincinnati, Ohio	CVG	-5	SU
Cleveland, Ohio	CLE	-5	SU
Columbus, Ohio	CMH	-5	SU
Dallas, Tex.	DAL	-6	SU
Denver, Colo.	DEN	-7	SU
Detroit, Mich.	DTW	-5	SU
El Paso, Tex.	ELP	-7	SU
Houston, Tex.	HOU	-6	SU
Indianapolis, Ind.	IND	-5	NO
Jacksonville, Fla.	JAX	-5	SU
Las Vegas, Nev.	LAS	-8	SU
Los Angeles, Calif.	LAX	-8	SU
Seattle, Wash.	SEA	-8	SU
St. Louis, Mo.	STL	-6	SU
Tampa, Fla.	TPA	-5	SU
Toronto, Ont., Can.	YTZ	-5	SU

City	Code	Zone	DST
Memphis, Tenn.	MEM	-6	SU
Miami, Fla.	MIA	-5	SU
Milwaukee, Wis.	MKE	-6	SU
Minneapolis, Minn.	MSP	-6	SU
Montreal, Que., Can.	YMX	-5	SU
Nashville, Tenn.	BNA	-6	SU
New Orleans, La.	MSY	-6	SU
New York, N.Y.	NYC	-5	SU
Oklahoma City, Okla.	OKC	-6	SU
Omaha, Neb.	OMA	-6	SU
Ottawa, Ont., Can.	YOW	-5	SU
Philadelphia, Pa.	PHL	-5	SU
Phoenix, Ariz.	PHX	-7	NO
Pittsburgh, Pa.	PIT	-5	SU
Portland, Ore.	PDX	-8	SU
San Antonio, Tex.	SAT	-6	SU
San Diego, Calif.	SAN	-8	SU
San Francisco, Calif.	SFO	-8	SU
San Jose, Calif.	SJC	-8	SU
Vancouver, B.C.,	YVR	-8	SU
Washington, D.C.	DCA	-5	SU
Vancouver, Canada	VAC	-8	SU

World Cities

City	Code	Time	DST
Addis Ababa,	ADD	3	NO
Adelaide,	ADL	9.5	SA
Algiers, Algeria	ALG	1	NO
Amsterdam,	AMS	1	SE
Ankara, Turkey	AKR	2	SE
Asunción,	ASU	-3	sp
Athens, Greece	ATH	2	SE
Bangkok,	BKK	7	NO
Barcelona,	BCN	1	SE
Beijing, China	BEJ	8	NO
Belgrade,	BEG	1	SE
Berlin,	BER	1	SE
Birmingham,	BHX	0	SE
Bogotá,	BOG	-5	NO
Bordeaux,	BOD	1	SE
Bremen,	BRE	1	SE
Brisbane,	BNE	10	NO
Brussels,	BRU	1	SE
Bucharest,	BBU	2	SE
Budapest,	BUD	1	SE
Buenos Aires,	BUA	-3	NO
Kinshasa,	FIH	1	NO
Kuala Lumpur,	KUL	8	NO
La Paz, Bolivia	LPB	-4	NO
Lima, Peru	LIM	-5	NO
Lisbon,	LIS	0	SE
Liverpool,	LPL	0	SE
London,	LON	0	SE
Lyon, France	LYO	1	SE
Madrid, Spain	MAD	1	SE
Manila,	MNL	8	NO
Marseille,	MRS	1	SE
Melbourne,	MEL	10	SA
Mexico City,	MEX	-6	SU

City	Code	Time	DST
Cairo, Egypt	CAI	2	sg
Calcutta, India	CCU	5.5	NO
Cape Town,	CPT	2	NO
Caracas,	CCS	-4	NO
Chihuahua,	CUU	-6	SU
Copenhagen,	CPH	1	SE
Córdoba,	COR	-3	NO
Dakar, Senegal	DKR	0	NO
Dublin, Ireland	DUB	0	SE
Durban, South	DUR	2	NO
Frankfurt,	FRA	1	SE
Glasgow,	GLA	0	SE
Guatemala City,	GUA	-6	NO
Hamburg,	HAM	1	SE
Havana, Cuba	HAV	-5	SH
Helsinki, Finland	HEL	2	SE
Hong Kong,	HKG	8	NO
Irkutsk, Russia	IKT	8	SK
Jakarta, Indonesia	JKT	7	NO
Johannesburg,	JNB	2	NO
Kingston,	KIN	-5	NO
Oslo, Norway	OSL	1	SE
Panama City,	PTY	-5	NO
Paris, France	PAR	1	SE
Perth, Australia	PER	8	NO
Prague, Czech	PRG	1	SE
Rangoon,	RGN	6.5	NO
Reykjavík,	RKV	0	NO
Rio de Janeiro,	RIO	-3	sb
Rome, Italy	ROM	1	SE
Salvador, Brazil	SSA	-3	NO
Santiago, Chile	SCL	-4	sc
São Paulo, Brazil	SPL	-3	sb
Shanghai, China	SHA	8	NO

Milan, Italy	MIL	1	SE	Singapore,	SIN	8	NO
Montevideo,	MVD	-3	SM	Sofia, Bulgaria	SOF	2	SE
Moscow, Russia	MOW	3	SK	Stockholm	ARN	1	SE
Munich,	MUC	1	SE	Sydney, Australia	SYD	10	SA
Nairobi, Kenya	NBO	3	NO	Tokyo, Japan	TKO	9	NO
Nanjing	NKG	8	NO	Tripoli, Libya	TRP	2	NO
Naples, Italy	NAP	1	SE	Vienna, Austria	VIE	1	SE
New Delhi,	DEL	5.5	NO	Warsaw, Poland	WAW	1	SE
Odessa, Ukraine	ODS	2	SE	Zürich,	ZRH	1	SE
Osaka, Japan	KIX	9	NO				

DST (Daylight Savings Time) definitions:

SA = Australian DST.
SB = South Brazilian DST. Changes annually.
SC = Chile DST
SE = Standard European DST.
SG = Egypt DST
SH = Havana, Cuba DST
SI = Iraq and Syria DST
SK = Irkutsk & Moscow DST
SM = Montevideo, Uruguay DST
SN = Namibia DST
SP = Paraguay DST
SQ = Iran DST maybe changed annually.
ST = Tasmania DST
SU = Standard American DST.
SZ = New Zealand DST
NO DST = no = Places that do not observe DST;
ON = Always add 1 hour to the local standard time

Specifications

Radio Frequency: 433 MHz
RF Reception range: 100-328 feet (30 -100 m)
Barometric Pressure
Measuring Range: 14.75 inHg to 32.44 inHg (500 Hpa to 1100Hpa); (374.5 mmHg to 823.8 mmHg)
Resolution: 0.003 inHg (0.1 Hpa, 0.08 mmHg)

Accuracy: 0.015 inHg (5 Hpa; 0.38 mmHg)
Sampling interval: 20 minutes
Altitude Compensation Range: -657 ft to 16404 ft (-200m to +5000 m)

Temperature (Indoor)
Operating Range: 14.2°F to 140°F (-9.9°C to 60°C)
Resolution: 0.2°F (0.1°C)
Accuracy: 2°F (1°C)
Sampling Interval: 10 seconds

Temperature (remote)
Range: -40°F to 176°F (-40°C to 80°C)
Resolution: 0.2°F (0.1°C)
Accuracy: 2°F (1°C)
Transmitting Interval: around 47 seconds

Humidity (Indoor)
Operating Range: 0% to 99%
Resolution: 1%
Accuracy: 5%
Sampling Interval: 10 seconds

Humidity (Outdoor)
Operating Range: 0% to 99%
Resolution: 1%
Accuracy: 5%
Sampling Interval: 10 seconds
Transmitting Interval: around 47 seconds

Sunrise and Sunset
Accuracy: 1min (latitude within 50°)

Ultraviolet light
Range: 0 UVI to 36UVI (15.4 MED/hour)
Resolution : 0.1UVI (0.1 MED/h)
Accuracy: 1UVI + 10%
Transmitting Interval: 300 seconds

Wind Direction
Range: 0° to 360°
Resolution: 22.5°
Accuracy: 11.25°
Starting Threshold: 3mph (4.8 Km/h)
Transmitting interval: 33 seconds

Wind Speed
Range: 0 to 199.9mph (199.9 Km/h, 173.7 Knots, 89.3 m/s)

Resolution: 0.1mph (0.16 Km/h)
Accuracy: (2mph + 5%)
Starting Threshold: 3mph (4.8 Km/h)
Wind/Gust Speed Display Update Interval: 33 seconds
Wind/Gust Sampling Interval: 11 seconds

Rainfall

1h/24h/yesterday range: 0 to 78.73 inch (0 to 1999.9 mm)
Last week/ last month range: 0 to 787.3 inch (0 to 19999 mm)
Resolution: 0.03 inch (0.6578 mm)
Accuracy: +/- 5% +/- 0.03 inch (+/-5%mm +/-0.6875)
Transmitting Interval: 183 seconds

Hardware Requirement for WeatherView PC software

Operating System: Windows 98 or above
Memory size: Ram 128 MB or more
Hard disk size: 100 MB free space or more
Optical Device: 2 x CD-Rom drive

Power

Main unit: 4 x UM-3 or AA 1.5V battery; 7.5V AC/DC power adaptor (200mA; center pin positive)
Remote Thermo Hygrometer: 2 x UM-3 or AA 1.5V battery
Remote UV sensor: 2 x UM-3 or AA 1.5V battery
Remote Anemometer: 2 x UM-3 or AA 1.5V battery
Remote Rain Gauge: 2 x UM-3 or AA 1.5V battery
IR Remote Control: 2 x UM-4 or AAA 1.5V batteries

Battery life (alkaline)

Main unit: 2 month
Thermo-Hygrometer: over 12 months
UV sensor: 2 years
Anemometer: 2 years
Rain Gauge: 2 years

Weight (without batteries)

Main unit: 8.15oz (231g)
Remote Thermo-Hygrometer: 2.29oz (65g)
Remote UV: 2.78oz (79g)
Remote Anemometer: 11.12oz (315g)
Remote Rain gauge: 10.24oz (290g)
IR Remote Control: 3.18oz (90g)

Dimensions

Main unit: 8.66 (L) x 6.38 (H) x 1.38 (D) inches / 220 (L) x 162 (H) x 35 (D) mm

Remote Thermo - Hygrometer: 2.37(L) x 4(H) x 1(D) inches / 60(L) x 101(H) x 25(D) mm
Remote UV unit: 2.58(L) x 4.45(H) x 2.58(D) inches / 65.5(L) x 113(H) x 65.5(D) mm
Remote Anemometer: 19.16(L) x 19.16(H) x 15.35(D) inches / 486.6(L) x 486.6(H) x 390(D) mm
Remote Rain gauge: 6.49(L) x 6.89(H) x 4.72(D) inches / 165(L) x 175(H) x 119(D) mm
IR Remote Control: 1.61(L) x 5.94(H) x 0.86(D) inch / 40(L) x 150(H) x 22(D) mm

FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.
Warning: Changes or modification to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
NOTE: This equipment had been tested and found to comply with the limits for a Class B Digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment, installed and used in accordance with the instructions, may cause harmful interference to radio communications.
There is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to improve or correct turning the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

DECLARATION OF CONFORMITY

We
Name: Hideki Electronics, Inc.
Address: 7865 SW Mohawk, Tualatin, OR 97062
Telephone No.: 1-503-612-8395
declare that the product
Product No.: TE923W
Product Name: Professional Weather Station with Remote Control

Manufacturer: Hideki Electronics Ltd.
Address: Unit 2304-06, 23/F Riley House, 88 Lei Muk Road, Kwai Chung, New Territories, Hong Kong
is in conformity with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
This device may not cause harmful interference.
This device must accept any interference received, including interference that may cause undesired operation.

The information above is not to be used as a contact for support or sales. Please call our customer service hotline (refer to the Standard Warranty Information) for all injuries instead.

STANDARD WARRANTY INFORMATION

This product is warranted from manufacturing defects for one year from the date of retail purchase. It does not cover damages or wear resulting from accident, misuse, abuse, commercial use, or unauthorized adjustment and repair.
Note that online product registration is required to ensure valid warranty protection.
To register your product, go to our Company website at:
www.honeywellweatherstations.com. Click Online Product Registration under the Customer Service menu.
Should you require assistance with this product and its operation, please contact our Customer Service Hotline 1(866) 443 3543.
Please direct all returns to the place of the original purchase. Should this not be possible, contact Hideki Customer Service Hotline for assistance and to obtain a Return Merchandise Authorization (RMA). Returns without a return authorization will be refused. Please retain your original receipt as you may be asked to provide a copy for proof of purchase.
Hideki Electronics, Inc. reserves the right to repair or replace the product at our option.

Honeywell International Inc. makes no representations or warranties with respect to this product.
All user manual contents and information are subject to change.

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