Solar Powered Wireless Wi-Fi Weather Station TP3000WC Operation Manual

About this manual

Thank you and congratulations on selecting this professional weather station! We are sure you will enjoy the benefits of accurate weather readings and the precise network time information that this weather station offers. This manual will guide you step-by-step through setting up your device. Use this manual to become familiar with your ProWeatherStation, and save it for future reference.

Glossary of Common Terms

LCD

"LCD" is an acronym for "Liquid Crystal Display". This is a common type of display screen used in televisions, computers, watches, and digital clocks.

BAROMETER & BAROMETRIC PRESSURE

A barometer is a device that measures the pressure of the air pushing on it—this measurement is called the barometric pressure. We don't actually feel the barometric pressure because the air pressure is pushing equally in every direction.

RELATIVE AIR PRESSURE

Relative air pressure is the same as the barometric pressure. The calculation of relative air pressure is a combination of the absolute air pressure and the altitude.

ABSOLUTE AIR PRESSURE

Absolute air pressure is the actual air pressure on the barometer without regard to altitude.

INCHES OF MERCURY (inHg)

Inches of Mercury is the common unit of measurement for air pressure in the United States.

HECTOPASCALS (hPa)

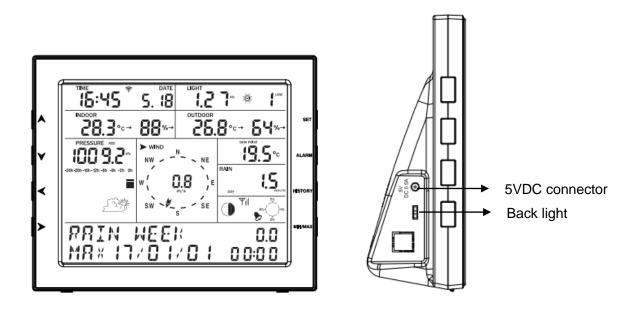
Hectopascals are the common units of measurement for air pressure in the International System (SI) of measurement. The hectopascal holds the same value

Important Note:

The ProWeatherStation TP3000WC comes fully assembled for ease of use. The Outdoor Sensor array runs mainly on solar power which charges a super capacitor located inside the unit, but has 2 AA batteries for backup power when needed (ie; solar panel shaded or covered with snow). The outdoor sensor array communicates with the display console over a 915Mhz RF signal which sends the data to the display console about every 48 seconds. The display console can be run on batteries to just display the weather readings or it can be powered using the included 5V adapter to enable the WiFi capabilities of the display console. Once the unit is connected to a local WiFi network the display console can upload data automatically to Weather Underground without the need for a PC and can also be accessed from a PC running the WeatherSmartIP Wifi software.

OVERVIEW

Display console



Features

- Time and date, Moon phase.
- Indoor temperature and humidity
- Outdoor temperature and humidity
- Wind chill, gust, wind direction.
- Rainfall Displays rain level and rainfall data in 24 hours, one week, one month, one year, total rain and rainfall event.
- Wind speed in mph, km/h, m/s, knots or Beaufort
- Wind direction with 360 degrees
- Wind chill, dew point and heat index temperature display.
- Barometric, weather forecast.
- MAX, MIN value with time stamp. High/ low alarm.
- Light and UV index
- NonVolatile Memory: Saves the data when batteries are changed
- WeatherSmartIP Wifi PC software

Uploads the data to 3 weather server: wunderground.com, Weathercloud and WOW

Proweatherstation Setup

Warning: Any metal object may attract a lightning strike, including your weather station mounting pole. Never install the weather station during a storm.

Warning: Installing your weather station in a high location may result in injury or death. Perform as much of the initial checkout and assembly on the ground, preferaby inside a building or home. Only install the weather station on a clear, dry day.

1. Sensor Array Components

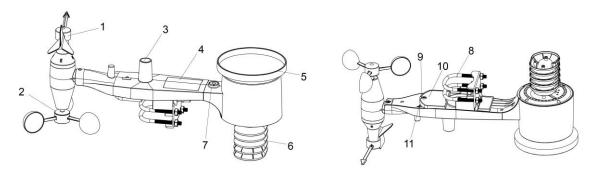


Figure 1

- 1. Wind Vane
- 2. Wind Speed Sensor
- 3. UV sensor/ Light sensor
- 4. Solar panel
- 5. Rain collector
- 6. Temp/Humidity sensor
- 7. Bubble level
- 8. U-Bolt

9. LED Indicator: light on for 4s if the unit power up. Then the LED will flash once every 16 seconds (the sensor transmission update period).

- 10. Battery door
- 11. Reset button

2. Install Batteries

Insert 2XAA batteries in the battery compartment. The LED indicator on the back of the transmitter will turn on for four seconds and normally flash once every 16 seconds (the sensor transmission update period).

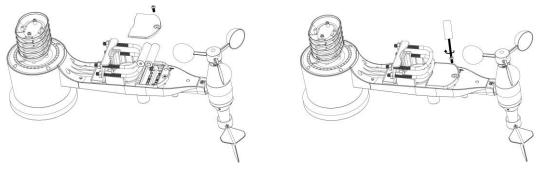


Figure 5



Note: If no LED lights up or is lit full time, make sure the battery is inserted with correct polarity. Caution! Do not install the batteries backwards as you can permanently damage the outdoor sensor. If LED function is not as expected, remove the batteries, wait 30 seconds and then re-install.

Note: We recommend lithium batteries for cold weather climates, but alkaline batteries are sufficient for moderate climates. Rechargeable batteries should never be used, because they have lower voltages.

3. Mount outdoor sensor

Reference Figure 8 & 9. The mounting assembly includes two U-Bolts and a bracket that tightens around a 1 to 2" diameter pole (included) using the four U-Bolt nuts.

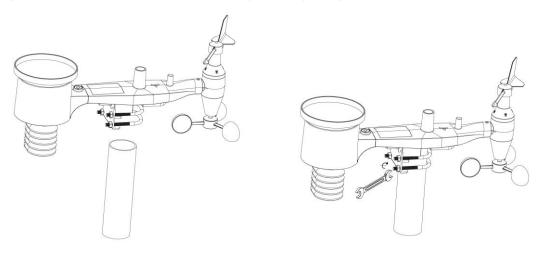


Figure 8

Figure 9

Note: Use the bubble level beside the rain sensor as a guide to verify that sensors are level.

4. Reset Button and Transmitter LED

In the event the sensor array is not transmitting, reset the sensor array. 8000060 Rev 1 8-Aug-18

With an open ended paperclip, press and hold the **RESET BUTTON** for 3 seconds to initiate a reset: LED turns on while RESET button is pressed, and resumes normal operation after the Reset button is released: LED will flash every 16s during normal operation.

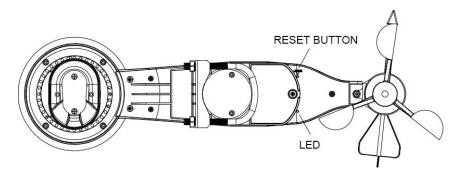


Figure 10

6. Best Practices for Wireless Communication

Wireless communication is susceptible to interference, distance, walls and metal barriers. We recommend the following best practices for trouble free wireless communication.

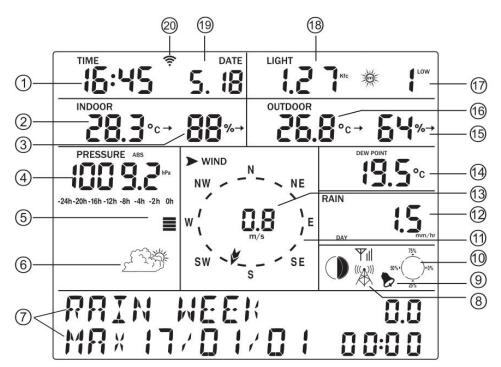
- 1. **Electro-Magnetic Interference (EMI)**. Keep the display console several feet away from computer monitors and TVs.
- 2. **Radio Frequency Interference (RFI).** If you have other 915 MHz devices and communication is intermittent, try turning off these other devices for troubleshooting purposes. You may need to relocate the transmitters or receivers to avoid intermittent communication.
- 3. Line of Sight Rating. This device is rated at 300 feet line of sight (no interference, barriers or walls) but typically you will get 100 feet maximum under most real-world installations, which include passing through barriers or walls.
- 4. **Metal Barriers.** Radio frequency will not pass through metal barriers such as aluminum siding. If you have metal siding, align the remote and console through a window to get a clear line of sight.

The following is a table of reception loss vs. the transmission medium. Each "wall" or obstruction decreases the transmission range by the factor shown below.

| Medium | RF Signal Strength Reduction |
|-------------------|------------------------------|
| Glass (untreated) | 5-15% |
| Plastics | 10-15% |
| Wood | 10-40% |
| Brick | 10-40% |
| Concrete | 40-80% |
| Metal | 90-100% |

7. Display Unit Setup

1. Display Console Layout:

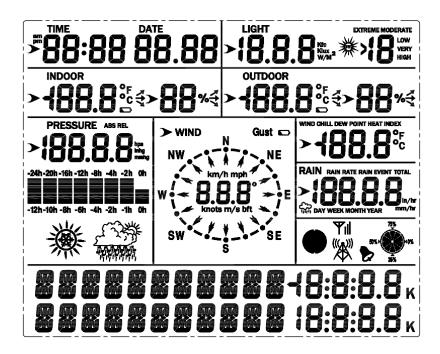


| 1.Time | 2.Indoor Temperature |
|-------------------------------------|------------------------------------|
| 3.Indoor Humidity | 4.Barometric Pressure |
| 5. Barometric Pressure graph | 6.Weather Forecast icon |
| 7. Dynamic information display area | 8. RF signal |
| 9. Alarm icon | 10. Memory status |
| 11.Wind direction | 12.Rain fall |
| 13.Wind speed/Gust speed | 14.wind chill/Dew point/Heat index |
| 15.Outdoor Humidity | 16.Outdoor Temperature |
| 17.UV index | 18.Light |
| 19.Date | 20.Wifi Signal icon |

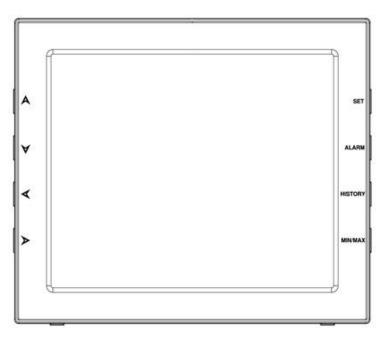
2. Initial Display Console Set Up

1. The unit will turn on all segments of the LCD for 3 seconds after power. Then the unit will start to register the outdoor sensor array which takes ~3 minutes.

2. Full display



3. Key function



- SET: Enter the setting mode
- ALARM: Display high or low alarm function / turn on/off the alarm
- HISTORY: Display history records / return to normal mode
- MAX/MIN: Display the MAX, MIN value
- A: Move to previous information(normal mode) or + (programming mode)
- ▼: Move to next information(normal mode) or– (programming mode)
- ✓:: Move to previous segment/move to main menu during setting.
- Section 2.1 Move to next segment/ move to sub menu during setting.

Console Operation

Note: Many display console settings can be set in the WeathersmartIP WiFi PC software. In order to do this, the software needs to be installed on a PC and the display console needs to be connected to your WiFi network. Instructions are located later in this user guide.

Program mode

The screen is divided into 10 segments for selection and there are message display panel on the bottom.

There are six program modes: normal, setting mode, history mode, alarm mode, max/min mode and calibrated mode.

All the modes can be exited at any time by pressing the HISTORY key, or waiting for a 30 second timeout to take effect.

Normally, if the segment selected have multi parts, press SET key to choose different part. Example: the current section is RAIN, you can press SET key to alternate the display of RAIN RATE, RAIN EVENT, DAY, WEEK, MONTH, YEAR and TOTAL.

1. Quick Display Mode(Update every 5 Seconds)

In the normal mode press" \checkmark "or" \succ " key to switch among different segments. The respective chosen segment will be marked with the arrow symbol" \blacktriangleright ". And there will be corresponding information display on the message board which is the lower 2 lines on the screen.

| XXX | X X | ** | ×××× | -18:8:8.8 к |
|-----|------------|-----|------|--------------------|
| ** | ×× | ××! | XXXX | 18:8:8.8 к |

The 11 digits on left are used to display text, the right side displays figures. The display will automatically switch after a few seconds. Or use the " \wedge " or " \forall " keys to manually switch the display.

If there are alarms occurred, the alarm information will be displayed in real time as well.

• Time and date



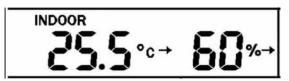
If the arrow symbol ">" is in this segment, following information will appear on message board:

- a) Year, Weekday
- b) Alarm time and status of the alarm(on/off)
- c) Moon phase. (Reference Section Other Console Functions/Moon phase for detail)
- d) If connected with Wi-Fi, the device time will synchronize with the internet time(UTC Time, you need to set the time zone for local time).
- Light and UVI



If the arrow symbol """ is in this segment, following information with time stamp will appear on message board:

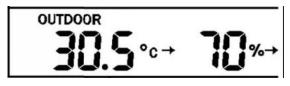
- a) The max light strength value of the day.
- b) The max light strength value since the last reset
- c) The max UV index value of the day.
- d) The max UV index value since the last reset.
- Indoor temperature



If the arrow symbol """ is in this segment, following information with time stamp will appear

on message board:

- a) Max indoor temperature value of the current day.
- b) Min indoor temperature value of the current day.
- c) Max indoor temperature value since the last reset
- d) Min indoor temperature value since the last reset
- e) Max indoor humidity value of the current day.
- f) Min indoor humidity value of the current day.
- g) Max indoor humidity value since the last reset
- h) Min indoor humidity value since the last reset
- Outdoor temperature/ humidity



If the arrow symbol "-" is in this segment, following information with time stamp will appear on message board:

a) Max outdoor temperature value of the current day.

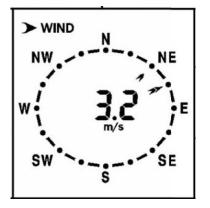
- b) Min outdoor temperature value of the current day.
- c) Max outdoor temperature value since the last reset
- d) Min outdoor temperature value since the last reset
- e) Max outdoor humidity value of the current day.
- f) Min outdoor humidity value of the current day.
- g) Max outdoor humidity value since the last reset
- h) Min outdoor humidity value since the last reset

Barometric



If the arrow symbol ">" is in this segment, following information with time stamp will appear on message board:

- a) Max relatively barometric pressure of the current day
- b) Min relatively barometric pressure of the current day
- c) Max relatively barometric pressure since the last reset
- d) Min relatively barometric pressure since the last reset
- e) Max absolute barometric pressure of the current day
- f) Min absolute barometric pressure of the current day
- g) Max absolute barometric pressure since the last reset
- h) Min absolute barometric pressure since the last reset
- Wind and gust speed



If the arrow symbol "P" is in this segment, following information with time stamp will appear on message board:

- a) The max wind speed of the current day
- b) The max wind speed since the last reset.

- c) The max wind gust speed of the current day
- d) The max wind gust speed since the last reset.
- Wind chill, dew point, heat index



If the arrow symbol ">" is in this segment, following information with time stamp will appear

on message board:

- a) Min wind chill temperature of the current day
- b) Min wind chill temperature since the last reset
- c) Max dew point temperature of the current day
- d) Min dew point temperature of the current day
- e) Max dew point temperature since the last reset
- f) Min dew point temperature since the last reset
- g) Max heat index of the day of the current day.
- h) Max heat index of the day since the last reset
- Rainfall



If the arrow symbol ">" is in this segment, following information with time stamp will appear

on message board:

- a) Max rain rate of the current day
- b) Max rain rate since the last reset
- c) Max Rainfall data of current day
- d) Max Rainfall data of last week
- e) Max Rainfall data of last month
- f) Max Rainfall data of last year

2. Setting Mode

2.1 In normal mode, press SET key for 2 seconds to enter the setting mode.

Then press " ◀ "button to transfer among different setting function : TIME SETTING UNIT SETTING RECORD SAVE INTERVAL RAIN SEASON SETTING BAROMETRIC SETTING KEY BEEP SETTING

CALIBRATION SETTING

TRANSMITTER ID

When the desired setting function is displayed, press the "ightarrow" key to start the associated setting menu. Change a setting with the key ightarrow. Hold the ightarrow / ightarrow key for 2 seconds will increase/decrease digits in great steps. Press HISTORY key or wait for 30 seconds at any time, device will return to normal mode.

• TIME SETTING

After entering setting mode, the first setting function "TIME SETTING" will appear on message board. Use the "▶" key to select the desired sub functions:

- a) TIME FORMAT:12H/24H
- b) DATE FORMAT:MM-DD-YYYY / DD-MM-YYYY / YYYY-MM-DD select
- c) TIME: Manual setting of time and date
- d) TIME ZONE
- e) DAYLIGHT SAVING TIME: switch on/off the reception of DST.
- f) NORTH/SOUTH: Set northern/southern hemisphere for moon phase

UNIT SETTING

After entering setting mode, the first setting function "TIME SETTING" will appear on message board. Press "

Then use the " \blacktriangleright " key to select the desired sub functions:

- a) Light unit select (lux, fc, w/m2)
- b) Temperature unit select (C, F)
- c) Pressure unit select (hpa, inhg, mmhg)
- d) Wind speed unit select (km/h, mph, knots, m/s, bft)
- e) Rainfall unit select (mm, inch)
- RECORD SAVE INTERVAL: to set the interval of data recording. Under setting mode, the first setting function appear on message board is "TIME SETTING", Press"
 "★ "key repeatedly to switch to "RECORD SAVE INTERVAL" display. Use the "▶" key to start setting of recording interval.

Use the A / \forall keys to select the desired recording interval for measured values.

• RAIN SEASON SETTING

Under setting mode, the first setting function appear on message board is "TIME SETTING". Press " \checkmark " button repeatedly to switch to "RAIN SEASON SETTING" display. Press the " \succ " button to start setting of the month of rain season. Press the \land / \checkmark buttons to select the month from January to December.

Rain season is the time of year when most of a region's average annual rainfall occurs. Rain season influence the annual rainfall maximum, minimum and total value. When one month was selected, the annual rainfall and annual max/min rainfall were zero clearing at 0:00 of the first day of the selected month.

• PRESSURE SETTING

Under setting mode, the first setting function appear on message board is "TIME SETTING". Press "✓ "button repeatedly to switch to "BAROMETRIC SETTING" display. Then press the "▶" button to select the desired sub functions:

BAROMETRIC COORDINATES: Press \land / \lor buttons to change the historical graph time between 12 and 24 hours.

• KEY BEEP SETTING

Under setting mode, the first setting function appear on message board is "TIME SETTING". Press" \checkmark "button repeatedly to switch to "KEY BEEP SETTING" display. Use the " \geq " button to start setting button beep. Press \land / \checkmark buttons to switch on/off the button beep.

Calibration setting

a) IN TEMP OFFSET

Offset for indoor temperature.

- b) IN HUMI OFFSET
- Offset for indoor humidity.
- c) OUT TEMP OFFSET

Offset for outdoor temperature.

d) OUT HUMI OFFSET

Offset for outdoor humidity

e) ABS PRESS OFFSET

Offset for absolute barometric pressure.

f) REL PRESS OFFSET

Offset for relatively barometric pressure.

g) WIND DIR OFFSET

Wind direction can be adjusted by 0-359 $^\circ\,$. For southern hemisphere installations, the wind direction need to change by 180 $^\circ\,$.

h) WIND SPEED

Wind speed calibration coefficient: default 1 (range is Range is 0.1-2.5)

i) RAINFALL FACTOR

Rain factor calibration coefficient: default 1 (range is Range is 0.1-2.5)

j) RAIN DAY CALIBRATION

Calibration for total rain falls of 1 day. (Range is 0-9999mm)

k) RAIN WEEK CALIBRATION

Calibration for total rain falls of 1 week (Range is 0-9999mm)

I) RAIN MONTH CALIBRATION

Calibration for total rain falls of 1 month (Range is 0-9999mm)

m) RAIN YEAR CALIBRATION

Calibration for total rain falls of 1 year (Range is 0-9999mm)

n) RAIN TOTAL CALIBRATION

Calibration for total rain falls since last reset. (Range is 0-9999mm)

• Transmitter ID

Display the transmitter ID.

3. ALARM MODE

In normal mode, press ALARM key you will enter high alarm mode, and press ALARM key again you will switch to low alarm mode.

• HIGH ALARM SETTING

Press \checkmark / \triangleright key to transfer among the different segments and press \land / \checkmark key to adjust the value of the high alarm.

- a) TIME ALARM –Set time alarm.
- b) In TEMP HIGH ALARM --Set indoor temperature high alarm
- c) In HUMI HIGH ALARM --Set indoor humidity high alarm
- d) Out TEMP HIGH ALARM Set outdoor temperature high alarm
- e) Out HUMI HIGH ALARM Set outdoor humidity high alarm
- f) ABS BARO HIGH ALARM --Set absolute barometric pressure high alarm
- g) REL BARO HIGH ALARM --Set relatively barometric pressure high alarm
- h) WIND HIGH ALARM --Set wind speed high alarm
- i) GUST HIGH ALARM --Set gust speed high alarm
- j) DEW POINT HIGH ALARM --Set dew point high alarm
- k) HEAT INDEX HIGH ALARM --Set heat index high alarm
- I) RAIN RATE HIGH ALARM --Set rainfall rate high alarm
- m) RAIN DAY HIGH ALARM --Set rainfall day high alarm
- LOW ALARM SETTING
 - a) In TEMP LOW ALARM--Set indoor temperature low alarm
 - b) In HUMI LOW ALARM --Set indoor humidity low alarm
 - c) In TEMP LOW ALARM --Set outdoor temperature low alarm
 - d) OUT HUMI LOW ALARM --Set outdoor humidity low alarm
 - e) ABS BARO LOW ALARM --Set absolute barometric low alarm
 - f) REL BARO LOW ALARM --Set relatively barometric low alarm
 - g) WIND CHILL LOW ALARM --Set wind chill low alarm
 - h) DEW POINT LOW ALARM --Set dew point low alarm

Under alarm mode, press the SET button to switch on or/off the alarm.

Press the ALARM button to switch between high alarm and low alarm setting.

Press HISTORY button or wait for 30 seconds at any time to return to normal mode.

When the alarm is activated, the alarm icon **b** will be displayed on the right of message board.

When an alarm is triggered, the base station will emit a sound beep and the alarm icon \blacktriangleright flashes. The corresponding text alarm message appears on the message board. Press any button to stop sound beep. But the alarm icon \triangleright will continue to flash if the weather data still above or below the threshold.

4. Max/Min Mode

In Normal Mode, press the MIN/MAX button to enter the max/min mode. In this mode, you can view all minimum/maximum records of weather parameters.

Press MIN/MAX to switch among below records:

TODAY MAX—The maximum values during current day HISTORY MAX –The maximum values since last reset TODAY MIN --The minimum values during current day HISTORY MIN --The minimum values since last reset

Press \checkmark button to switch among max/min records of different parameter, together with the time and date stamp.

Each Maximum/minimum value can be cleared by pressing SET button for 2 seconds during this mode.

Press the HISTORY button or wait for 30 seconds will lead to Normal Mode.

5. History mode

In normal mode, press the history button switch to history. In this mode, you can view individual history data records in internal memory. The base station can log 3552 records in total.

If no history data, it will show "HISTORY NONE RECORD" on the message board. Otherwise it will display message e.g. "HISTORY P/R 1.01" and "YEAR 16.06".

P 1=Page 1 (Each page has 32 data records) R 01= data record 01 YEAR 16=year 2016

The time and date of the record displays on the time section..

Press the A/\forall button to switch to next/pre record. Press the $\checkmark/\triangleright$ button to switch to next/pre page.

Under history mode, push the "SET" button for 2 seconds to clear all the memory.

Other Console Functions

• Weather Tendency indicators

There are arrow symbols besides the indoor/outdoor temperature and humidity segments to indicate weather trend:

| | Tendency | humidity | Temperature |
|-----------|----------------|----------|-------------|
| 8000060 F | Rev 1 8-Aug-18 | 15 | |

| indicators | | | |
|------------|---------|---------------------|------------------------------------|
| я | Dicina | Rising rate>= 10% | Rising >= 1℃ within 30 |
| | Rising | within 30 minutes | minutes |
| _ | Steady | Change rate < 10% | Change rate < 1° C within |
| - | Sleady | within 30 minutes | 30 minutes |
| N . | Falling | Falling rate >= 10% | Falling >= 1 °C within 30 |
| | | within 30 minutes | minutes |

Moon Phases

| Icon: Northern Hemisphere | Moon Phase Description | Icon: Southern Hemisphere |
|---------------------------|-------------------------|---------------------------|
| | NEW MOON | |
| | WAXING CRESCENT MOON | |
| | FIRST QUARTER MOON | |
| | WAXING GIBBOUS MOON | |
| | FULL MOON | |
| | WANING GIBBOUS MOON | |
| | LAST QUARTER MOON | |
| | WANING CRESCENT MOON | |

• Beaufort Scales (Wind Speed)

| Wind speed | Beaufort number | Description |
|---------------------------|-----------------|-----------------|
| 0-1mph (0-1.6kph) | 0 | Calm |
| 1-3mph (1.6-4.8kph) | 1 | Light air |
| 3-7mph (4.8-11.3kph) | 2 | Light breeze |
| 7-12mph (11.3-19.3kph) | 3 | Gentile breeze |
| 12-18mph (19.3-29.0kph) | 4 | Moderate breeze |
| 18-24mph (29.0-38.6kph) | 5 | Fresh breeze |
| 24-31mph (38.6-49.9kph) | 6 | String breeze |
| 31-38mph (49.9-61.2kph) | 7 | Near gale |
| 38-46mph (61.2-74.1kph) | 8 | Gale |
| 46-54mph (74.1-86.9kph) | 9 | Strong gale |
| 55-63mph (88.5-101.4kph) | 10 | Storm |
| 64-73mph(103-117.5kph) | 11 | Violent storm |
| 74mph or above (119.1kph) | 12 | Hurricane |

Live Internet Publishing

This weather station can send data to Weather Underground and WeatherCloud, free weather hosting services, using your household WiFi connection.

The weather station can also operate as a standalone weather station showing weather data on the display console and computer only, as long as the weather station console and computer are connected to the same WiFi. It doesn't require an internet connection to operate in this mode.

| Hosting Service | Website | Description |
|-----------------|-----------------------------------|--------------------------------|
| Weather | WeatherUndeground.com | Weather Underground is a free |
| Underground | | weather hosting service that |
| | | allows you to send and view |
| | | your weather station data |
| | | real-time, view graphs and |
| | | gauges, import text data for |
| | | more detailed analysis and use |
| | | iPhone, iPad and Android |
| | | applications available at |
| | | Wunderground.com. Weather |
| | | Underground is a subsidiary of |
| | | The Weather Channel and IBM. |
| WOW | www.WeatherObservationWebsite.com | WOW is a UK based weather |
| | | observation website. |
| Weather Cloud | WeatherCloud.net | Weathercloud is a real-time |
| | | weather social network formed |
| | | by observers from around the |
| | | world. |

This weather station can send data to the following free hosting services:

This weather station sends data to the Internet by using your WiFi connection.

Connecting the Weather Station Console to WiFi

Note:The WiFi feature only works when plugged into AC power due to higher energy requirements.

Note: a. Make sure your mobile device is connected to your WiFi network before operation.

b. To connect the weather station to WiFi, you must first download the application from one of the following choices:

• Apple App Store

- Google Play Store
- 1. On your mobile device, visit the Apple App Store or Google Play Store and search for the "**WS View**" application. Download this application to your mobile device.
- 2. Run the **WS View** application, and enter the main interface:

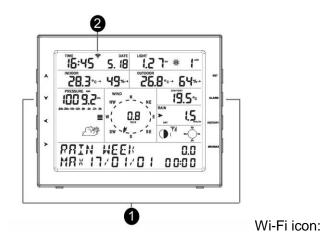
| Current Conditions Error: Station Offline | : |
|--|-----|
| Temperature | -÷- |
| Dew Point | ÷ |
| Relative Humidity | ->- |
| Pressure | ÷ |
| Wind Direction | ->- |
| Wind Speed/Gust | ÷ |
| Solar Radiation | ÷ |
| Precipitation Rate | -÷ |
| Total Precipitation | -÷ |
| Temperature/Dew Point | |
| | |
| Humidity | |

Note: If you don't have an account on wunderground.com, please press **Register on WU** and create a WU account and save the station ID and password for the future usage.

| Current Conditions Error: Station Offline | ← Register a PWS |
|--|--|
| Your Device(s) | E-mail |
| Provisioning Your Device | One e-mail can register multiple F Password |
| Register on WU | |
| Add monitoring WU ID | Confirm Password |
| Remove monitoring WU ID | Station Name |
| Unit | |
| | Device Location |
| | Current GPS Location |
| | Latitude Longitude |
| Point | Terms of Service |
| | I agree to the Weather Undergroun Terms of Service. |
| | Register |

- 3. Read and follow the tips to operate the display console(receiver):
 - (1) Plug the console with an AC adapter.
 - (2) Press and hold the \forall and **Alarm** buttons at the same time for five seconds.

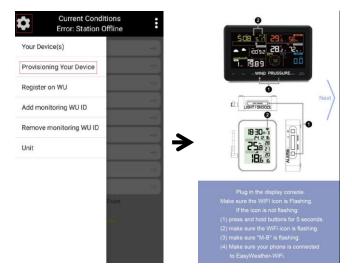
(3) The Wi-Fi icon will begin flashing rapidly, and the following words will display on the message board: WIFI STATUS MODE -- B, indicating the console is searching for your Wi-Fi network.



4. While the Wi-Fi icon is flashing, check the WLAN on your mobile phone and find the EasyWeather-WiFixxxx. Make sure your phone is connected to EasyWeather-WiFixxxx and select NO when the message "No Internet access" appears.

| China Unicom 🛈 🖻 🔹 🕺 🕷 🗧 🔧 🖗 🕷 🖌 | [2 0] Ø 2:22 PM | China Unicom 🛛 🖸 📮 🗧 🗧 🗧 | \$ 🗢 ™al 😰 🖉 2:23 PM | China Unicom 🖗 🖸 🛛 * 🕾 | ች ¹⁸ .4 🗐 💋 🖉 2:23 PN |
|--|-------------------------------|---|----------------------|--|----------------------------------|
| EasyWeather-WIFIA6EA Saved (no Internet access) | ্লি | EasyWeather-WIFIA6EA Saved (no Internet access) | () () | WLAN | |
| Linksys0891 Saved, encrypted (no Internet access) | নি | Saved (no internet access) 360免费WiFi-5F Encrypted | | WLAN+ Enhanced Internet experience | On > |
| HP3600_AP Saved | (** | ChinaNet-kDZN Encrypted | | AVAILABLE NETWORKS EasyWeather-WIFIA6EA | (6 |
| 360免费WiFi-5F Encrypted | () | Linksys0891_5GHz | | Connected (no Internet access) OST-SALER | 6 |
| ChinaNet-kDZN Encrypted | | EasyWeather-WIF | A6EA | Saved, encrypted (good quality) TP-LINK | 1 |
| Linksys0891_5GHz Encrypted | () () | Signal strength Encryption type | None | HP3600_AP | Ŷ |
| L inksys0891-访客 Open | (î;- | | | Saved (available) | s |
| Li nksys0891_5GHz-访 客 ^{Open} | ((:- | FORGET | _ | Switch to other available network | |
| xxx_WIFI | (| CANCEL | | No will leave you on the same net | work. |
| Scan MIFI-2 WLAN Direct Configure | More | JUU DE WIITEL | | NU S | WIICH |

5. Back to the app and select **Provisioning Your Device** and then press **NEXT** to enter the **Upload** page.



Enter your station ID and password for the weather server and press **Save**. Your station ID of wunderground.com will be added on the **WU Station List**.

Press **Next** till enter the WIFI Mode page. Press **Scan** and select your Router SSID and enter the WIFI Password.

| + Upload | ← MIFI Mode |
|--|--|
| Weather Sever Wunderground | Note: Obtaining the WLAN listing may require Precision Location privileges. If prompted, please press Accept, or enter the Router SSID manually. Router SSID |
| Station ID | Select SCAN or manually enter SSID. |
| IHONGKON101 | WIFI Password Scan |
| Station key 2urybbci | Enter Password |
| Save | → |
| Next >> | |
| Enter Station ID and Key and Select Save. Press Next. | Save |
| Save Success. | Press SCAN and select your SSID from the list. If your router is dualband, make sure you connect to the router's 2.4 GHz band. Ther your WFI password and select Save. If successful, the WFI icon on the display will turn solid. If not, the WFI icon will turn off. |

6. Click **Save** and a "**WSVIEW**" message will show up, press **OK**. Then it'll turn to the main interface. Your station ID will display on the **WU Station List**.

| MIFI Mode | Current Condition Error: Station Off | 0 | | Conditions Ition Offline |
|--|---|-------------|---------------------|-----------------------------|
| | Temperature | -* | Temperature | WU Station List |
| | Dew Point | -> | Dew Point | IHONGKON101 |
| | Relative Humidity | ->- | Relative Humidity | |
| | Pressure | -* | Pressure | |
| AMNET | Wind Direction | | Wind Direction | |
| Please reconnect this device to your wireless router. You have completed the WiFi | Wind Speed/Gust | -> → | Wind Speed/Gust | |
| connection wizard. | Solar Radiation | | Solar Radiation | |
| ок | Precipitation Rate | -* | Precipitation Rate | |
| | Total Precipitation | | Total Precipitation | |
| Sava | Temperature/Dew Pe | oint | Temperatu | ne/D |
| ress SCAN and select your SSID from the list. If your er is dualband, make sure you connect to the router's Hz band. Ther your WIFI password and select Save. | No chart data availab | le. | Add a little o | |
| If successful, the WIFI icon on the display will turn d. If not, the WIFI icon will turn off. | Humidity | | Hu | mide |

Note: Once the console has connected to your WiFi network, the Wi-fi icon on the console will stop flashing and become solid.

Basic Functions:

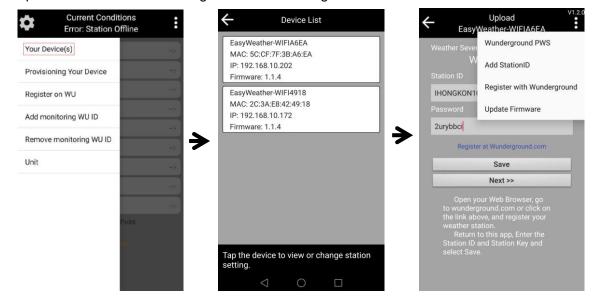
Check weather data and graph

Choose the Station you want to check on the **WU Station List** and see the current weather data and graph (data achieved from the Wunderground.com).

| Temperature | WU Station List | Temperature | |
|------------------------|-----------------|--------------------------------------|---------|
| ew Point | I44BAOAN7 | Dew Point | |
| lative Humidity | IHONGKON101 | Relative Humidity | |
| ressure | | Pressure | 1 |
| | | Wind Direction | |
| | | Wind Speed/Gust | 1 |
| | 7 | Solar Radiation | |
| ecipitation Rate | | Precipitation Rate | |
| | | Total Precipitation | |
| Temperature. | D | Temperature/De | w Point |
| | | 55'F 50'F 45'F 40'F 35'F | |
| 2:00 4:00 6:00 Humi | Di | 2:00 4:00 6:00 8: Humidity | |

Your Device(s)

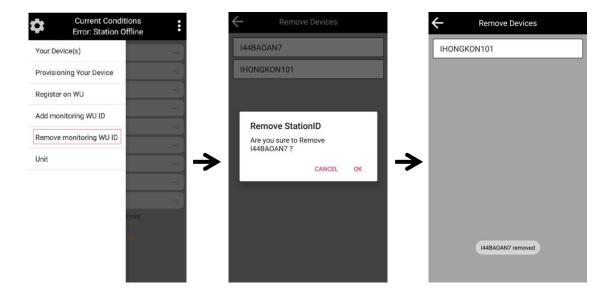
Once the device is connected successfully with WIFI, it will display on **Your Device(s)**. Tap the device to view or change the station setting.



Add monitoring WU ID

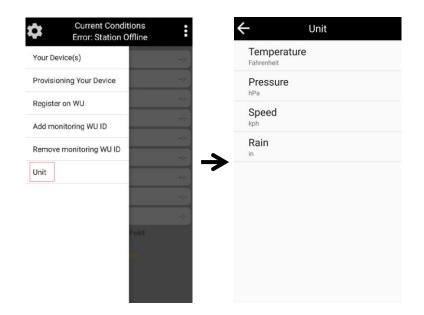
| Current Conditions Error: Station Offline | : | Add Linked Device | Add Linked Device |
|---|-----|--|--|
| Your Device(s) | | If you already have a PWS registered with | If you already have a PWS registered with |
| Provisioning Your Device | | Wunderground, you can add it to the My Devices page of this app by providing the station ID and pressing Add Device. | Wunderground, you can add it to the My Devices page of this app by providing the station ID and pressing Add Device. |
| Register on WU | | Station ID | Station ID |
| Add monitoring WU ID | | | IGUANDON4 |
| Remove monitoring WU ID | | | |
| Unit | → | Add Device | Add Device |
| | | | |
| Point | -9- | | |
| in the second | | | |
| | | | ADD StationID Success. |
| | | | |

Remove monitoring WU ID



Set Unit

Click the **Unit** on the setting column of the main interface to set the units for temperature, pressure, wind speed and rain.



Registering with WeatherUnderground.com and WeatherCloud.net

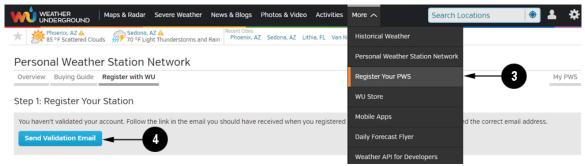
WeatherUnderground.com

Registering through the PC or Mac Website

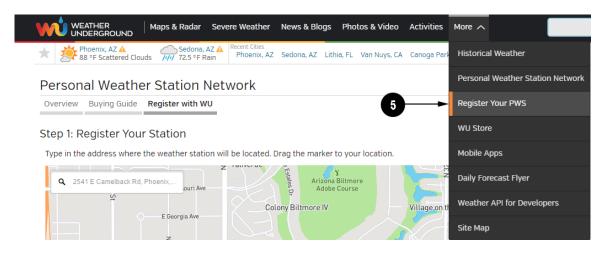
1. Visit Wunderground.com and select the **Join** link at the top of the page. Select the **Free** sign up option.

| | Maps & Radar Severe Weather | r News & Blogs | Photos & Video | Activities More | Search Locations | 🔶 Log.in Join 🄅 |
|--|--|----------------|--------------------|----------------------|------------------|-----------------------|
| * Phoenix, AZ A 85 °F Scattered Cloud | Sedona, AZ A Phoeni | | Lithia, FL Van Nuy | , CA Canoga Park, CA | | 4 |
| Create an Accour | it | | | Member S | Sign In | |
| Email | | | | Email | | |
| Username (numbers and letters | only] | | | Password | | |
| Password (5-30 characters) | | s | Show | Forgot your pass | sword? | |
| | | | | Sign In | | Looking for Facebook? |
| I agree to the Terms of So I would like to receive WU | | | | | | |
| Basic - Free | Premium - \$10/yr | | | | | |
| Upload Photos Post Blogs | AD FREE Websites AD FREE Mobile Apps | | | | | |
| Post Comments | AD FREE Emails Longer Radar Loops | | | | | |

- 2. Select More | Register Your PWS.
- 3. Click **Send Validation Email**. Respond to the validation email from Wunderground (it may take a few minutes).



4. Select More | Register Your PWS again and enter all of the information requested.



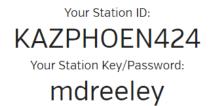
- 5. After registering your station, make a note of the following:
 - Station ID
 - Station Key / Password

Enter the Station ID (ID) and Station Key (Password) into the WS Tool.

Below figure is an example, and your station ID and password will be different.

Congratulations. Your station is now registered with Wunderground!

You are almost done. Now go to your weather station software and add the following:



Note: Your station ID will have the form: KSSCCCC###, where K is for USA station (I for international), SS is your state, CCCC is your city and ### is the station number in that city.

In the example above, KAZPHOEN424 is in the USA (K), State of Arizona (AZ), City of Phoenix (PHOEN) and #424.

Viewing your Data on Wunderground.com

There are several ways to view your data on Wunderground:

Web Browser

Visit:

http://www.wunderground.com/personal-weather-station/dashboard?ID=STATIONID

where **STATIONID** is your personal station ID (example, KAZSEDON12).

| | ona, AZ > 34.784 -1 | 1.742 > 4236 ft | | | | |
|--|---------------------------|------------------------------|-------------------------------|------------------------------|----------------------------------|----------------------------------|
| PWS Data PWS Wid | gets WunderStation | | | | | PWS Blog My PV |
| • | | | | | | |
| 🖉 Status: | | | | | | |
| PWS viewed 1557 times sin | | | C | Constitutions | | |
| Radar Webcam | 1 | Comp | are Cur | rent Conditions s | tation reported 16 seconds ago | |
| ouis-os-oe or-oz-zat an abientCon/D | | | - | 1.6 °F | O.O mph | Wind from North Gusts 0.0 mph |
| | | | . Dew F | Point: 25 °F | UV: | 2 |
| | | C.S.L. | Humio | dity: 35% | Solar: | 85 w/m ² |
| Michan | Contraction of the second | | Precip | Rate: 0 in/hr | Soil Moist | ture: |
| | | | Precip | Accum: in | Soil Temp | D: |
| | | | Press | ure: 30.03 in | Leaf Wet | ness: |
| View w | ebcams on WunderMap | Add Webcam | 6 | :47 AM 🥣 6:28 PM | | |
| | | | | aning Gibbous 93% Illumi | nated | |
| | | | | aning clobous (55 /6 illumi | latea | |
| | | | 0 | | | |
| Weather Histo | ory for Sedona | I, AZ [KAZSEDO | 0 | | | |
| Weather Histo | ory for Sedona | I, AZ [KAZSEDO Daily Mode | 0 | ✓ 8 ✓ 2015 | View | Next |
| < Previous | ory for Sedona | | N12] | ✓ 8 ✓ 2019 | i View | Next |
| Previous Summary | ory for Sedona | | N12] | ✓ 8 ✓ 2019 | ; View | Next |
| Previous Summary | bry for Sedona | | N12] | ✓ 8 ✓ 2019 | | Next |
| Previous Summary | | Daily Mode | N12] | V 8 V 2015 | High | |
| Previous Summary Mar 8, 2015 | High | Daily Mode | N12] March | | High I 0.9 mph - | Low Average |
| C Previous Summary Mar 8, 2015 | High 52.2 °F | Daily Mode | N12] March Average 44.6 °F | Wind Speed | High L 0.9 mph - 2.5 mph - | Low Average Omph |

WunderStation iPad App

Visit: http://www.WunderStation.com

to download the WunderStation iPad app.

| Pad ♥ ₩Ů | 9:41 AM Sunnyside () JUST NOW | ^{100%} |
|--|--|--|
| CURRENT CURRENT CURRENT CONT CONT CURRENT CONT CONT CONT CONT CONT CONT CONT CO | TEMPERATURE - TOCAY | SALE FORMER Concentration Methods Vision Concentration Concent |
| $T_{F} = T_{F} T} T_{F} T_{F} T_{F} T_{F} T_{F} T_{F} T_{F} T_{F} T_{F} T} T_{F} T} T_{F} T_{F} T_{F} T_{F} T_{F} T_{F} T_{F} T T} T_{F} T} T_{F} T_{F} T} T_{F} T T} T_{F} T T T} T T T T} T T$ | TODAY'S ACCUM. TODAY'S ACCUM. TODAY'S ACCUM. TYDO-DAY TOTAL 0,000 N/HR 000 | WIND GUSTS |
| PRESSURE 29.91 Production Product | PRESSURE - PAST VEAR | Scattered Clouds |

PWS Weather Station Monitor iOS App, can be downloaded from apple store:



PWS Weather Station Monitor Matt Brady



Mobile Apps

Visit:

http://www.wunderground.com/download/index.asp

for a complete list of Mobile apps for iOS and Android. Alternately, you can find your data on your mobile device's web browser.



WeatherCloud

1. Visit WeatherCloud.net and enter a Username, Email and Password.

| weathercloud | weatherclos |) @ustories Observatori | | Map Sign in (en) |
|--------------|-------------|-------------------------------|---------|------------------|
| Username | Email | Password | Sign up | |

2. Respond to the validation email from WeatherCloud (it may take a few minutes).

| You have no devices. | |
|----------------------|--|
| Create device | |

- 3. Select **Create Device** and enter your weather station information. After registering your station, make a note of the following:
- 4.
- Weathercloud ID
- Key

Enter the Weathercloud ID (ID), Key (password) into the WS Tool.

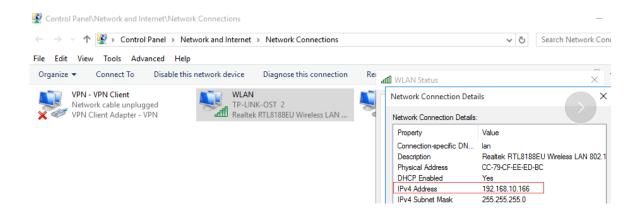
PC Software Operation

This professional weather station set includes a PC software for remote set or monitor on your computer or laptop.

Connect the display console with the pc software:

- 1. Decompress the **WeatherSmartIP for Wifi** file from CD, open the **WeatherSmartIP for Wifi** Setup.exe to install the software.
- 2. Make sure your PC is in the same network (connected via PC wifi or Ethernet).
- 3. Launch the software and select the IP address of your PC (check the properties of the wifi network on your computer to find the IP address) and click OK.

| Local IP | | | | × |
|-----------|---------------------------------|---|----|---|
| | | | | |
| Local IP: | 192.168.19.122 | ~ | ОК | |
| | 192, 168, 19, 122 | | | |
| - | 192.168.134.1 192.168.10.166 | | | |



4. Under **System** column, click **Select Device** and choose weather station device IP address (weather station display IP address can be found on Device List from your WS View app). Click OK.

| S WeatherSmart for WiFi | and the second se | |
|--|---|---|
| System Record Help | | |
| Pressure | Wind | |
| Relative Pressure | Wind Speed | |
| Current: Max: Min: | Current: m/s Max: m/s | |
| (hpa) (hpa) (hpa | Gust | |
| Absolute Pressure | Current: m/s Max: m/s | |
| Current: Max: Min: | Destal | |
| (hpa) (hpa) | Rainfall | |
| Indoor & Outdoor | Day Rainfall 40 - | |
| Indoor Temperature | Current: Max: 20 - | <pre></pre> |
| | | |
| Current: Max: Min: °C °C °C °C | Mook Painfall | |
| Se | lect Device | Temperature |
| Indoor Humidity | 1 | Indoor Outdoor |
| Current: Max: Min: | | |
| | Device: | 50-50- |
| Outdoor Temperature | | 45 - 45 - |
| Current: Max: Min: | | |
| | 300 - | 30-30- |
| Outdoor Humidity | Current: Max: 150 - | 25 - 25 - 20- 20- |
| Current: Max: Min: | mm 0 | 15 - 15 - |
| %% | | 10-10-10- |
| | Light | |
| DewPoint & WindChill & Heatindex | Current: (,- fc Max: (,- fc | -55 - |
| DewPoint | | 1010- |
| Current: Max: Min: | Current: Max: | -151520- |
| <u> </u> | | -20 -20 -20 -20 -25 - |
| WindChill | Heatindex | -30 |
| Current: (°C) Min: (°C | Current: °C Max: °C | -353540 |
| | | |
| | Device : | |

5. PC will try to connect to weather station now.

6. When Connected successfully and the pc soft will display the weather data from the console

| Pressure | | | Wind | 1 T |
|------------------------------|--------------------|--------------------|---|------------|
| Relative Pressure | 9 | | Wind Speed | ' N ' |
| Current: | Max: | Min: | Current: 0.0 m/s Max: 2.7 m/s | <u></u> |
| 757.8 mmHg | 770.9 mmHg | 755.2 mmHg | Gust | |
| Absolute Pressu | | | Current: 0.0 m/s Max: 4.6 m/s —W | ~~~~ |
| Current: 761.7 mmHg | Max: 772.2 mmHg | Min: 757.1 mmHg | Rainfall | |
| (101.7 mining) | (112.2 mining) | | Day Rainfall | |
| Indoor & Outdoor | | | 27 | |
| Indoor Temperatu | 150 | | Current: Max: 1 - | s |
| and the second second second | | | 0.02 inch 0.24 inch 0 | / ĭ / |
| Current: 75.4 °F | Max: 81.3 °F | Min: 60.3 °F | Week Rainfall | |
| (13.4 1 | (01.51) | (00.3 1) | | emperature |
| Indoor Humidity | | | Current: Max: 2 - Indoo | r Outdoor |
| Current: | Max: | Min: | 0.02 inch 0.70 inch 0 140- | 140 |
| 62 % | (74 %) | 26 % | Month Rainfall 131 - | 131 - |
| | | | 6 122- Current How - 113 - | 122 |
| Outdoor Tempera | ature | | Current: Max: 3 - 113 - 104- | 104 |
| Current: | Max: | Min: | 0 0 95 - | 95 - |
| (70.2 °F | (140.0 °F) | (-40.0 °F) | Year Rainfall 8- | 86 |
| | | | -1 1 1 1 1 1 1 | 77 - |
| Outdoor Humidity | | | | 68 |
| Current: | Max: | Min: | 6 | 50- |
| (73 % | 99 % | 10 % | Light&UVI 41 - | 41 - |
| DewPoint & Wind | Chill & Heatindey | | Light 32 | 32- |
| DewPoint | | | Current: 0.0 lux Max: 266522.0 lux 23 - | 23 - |
| | 2.20 | | UVI 14- | 14 |
| Current: | Max: | Min: | Current: 0 Max: 15 -4- | -4 |
| 61.2 °F | (139.6 °F) | (-40.0 °F | -13 - | -13 - |
| WindChill | | | Heatindex -22- | -22— |
| Current: 70.2 ° | F Min: | (-40.0 °F | Current: 70.2 °F Max: 140.0 °F | -31 - |

7. Basic Functions of the "WeatherSmartIP for Wifi" Software

System

| Select Device | | Wind | | 7 |
|------------------------|------------------|---------------------------------------|--|----------|
| Setting | | Wind Speed | , N | 1 |
| Alarm | Min: | Current: 0.0 m/s Max: 2.7 m/s | / . | |
| Max/Min Day | mHg 755.2 mmHg | | ~ | |
| Max/Min | | Current: 0.0 m/s Max: 4.6 m/s | _w ~~ | |
| Calibration | Min: | Rainfall | , × | |
| Language | 1mHg (757.1 mmHg | Day Rainfall | - | |
| nooor & Onnoon | | 27 | | |
| ndoor Temperature | | Current: Max: 1 - 0.02 inch 0.24 inch | , ș | , > |
| Current: Max: | Min: | Week Rainfall | | × |
| 75.4 °F (81.3 | 3 °F (60.3 °F | | Temperature | ρ |
| ndoor Humidity | | Current: Max: 2 - | A CONTRACTOR OF A CONTRACTOR O | tdoor |
| urrent: Max: | Min: | 0.02 inch 0.70 inch 0 | | 40-1 |
| 62 % 74 | % 26 % | Month Rainfall | | 131 - |
| | | | | 122 |
| Outdoor Temperature | | Current: Max: 3 - | | 104 |
| Current: Max: | Min: | | | 95 - |
| 70.2 °F 140 | 1.0 °F (-40.0 °F | Year Rainfall | | 86 |
| Outdoor Humidity | | Current: Max: 4 - | | 68- |
| Current: Max: | Min: | 0.96 inch 0.96 inch 0 | | 59 - |
| 73 % 99 | % 10 % | Light&UVI | | 50- |
| | | Light | | 41 - 32- |
| DewPoint & WindChill & | Heatindex | Current: 0.0 lux Max: 266522.0 lux | | 23 - |
| DewPoint | | | | 14 |
| Current: Max: | Min: | | 5 | 5- |
| 61.2 °F 139 | 1.6 °F (-40.0 °F | Current: 0 Max:(15 | | -4 |
| VindChill | | Heatindex | -22 | -22- |
| | | Current: 70.2 °F Max: 140.0 °F | | -31 - |

Setting

| ime Zone | Interval 5 Minute | Minute second | Rain Season Beginning January V |
|---------------------|-----------------------|--|------------------------------------|
| Init | | | |
| Indoor Temperature | Pressure | | |
| ণ্দ 🗸 🗸 | mmhg 🗸 | | |
| Light | Wind | Rainfall | |
| lux ~ | m/s 🗸 | inch 🗸 | |
| Display | | | 11 |
| Date | Time | Axis | Key Tone 🗹 on |
| | 12 ~ | 12 ~ | DST 🗹 on |
| Outdoor Temperature | Pressure | Wind | Rainfall |
| DewPoint ~ | Absolute Pressure 🗸 🗸 | Wind direction $~~$ $~~$ | RAIN EVENT V |

Alarm

| | High | | | Low | | | Select All | |
|---------------------|-------|------|---|-------|----------|--------------|------------|------|
| Indoor Humidity | 65 | % | | 35 | % | Alarm | 0:00 | - |
| Outdoor Humidity | 75 | % | | 45 | % | Wind Speed | 0.5 | m/s |
| Indoor Temperature | 68.0 | ٩F | | 32.0 | 9F | Gust | 1.0 | m/s |
| Outdoor Temperature | 86.0 | œ | | 14.0 | e= | Day Rainfall | 0.00 | inch |
| outuoor remperature | | | _ | | | Rain rate | 0.00 | inch |
| DewPoint | 50.0 | ۹F | | 14.0 | ۹۴ | WindChill | 32.0 | ٩F |
| Relative Pressure | 780.0 | mmHg | | 720.0 | mmHg | Heatindex | 80.6 | ٩F |
| Absolute Pressure | 780.0 | mmHg | | 720.0 | mmHg | | | |
| | | | | | | | | |

Max/Min Day

| Indoor Tempe | rature | | | | | Heatindex | | |
|----------------|------------|---|-------|------------|--|-----------|---------|--------------|
| Max : | 75.9 % | 12 : 44 AM | Min : | 72.3 ºF | 12:00 AM | Max : | 70.3 ºF | 02:09 AM |
| outdoor Temp | erature | 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 | | | | Light | | |
| Max : | 70.3 % | 02:09 AM | Min : | 68.7 ºF | 12:00 AM | Max : | 0.0 lux | 12:00 AM |
| ndoor Humidi | ty | | | | | UVI | | (11) (11) |
| Max : | 68 % | 12:00 AM | Min: | 61 % | 02:10 AM | Max : | 0 | 12:00 AM |
| Outdoor Humi | dity | | | | | WindChill | | |
| Max : | 74 % | 01:04 AM | Min : | 71 % | 02:08 AM | Min : | 68.7 %F | 12:00 AM |
| Absolute Pres | sure | | | | | | | ALLA. |
| Max : | 764.0 mmHg | 12:21 AM | Min : | 761.5 mmHg | 12:45 AM | | | |
| Relative Press | ure | | | | | | | |
| Max : | 760.1 mmHg | 12:21 AM | Min : | 757.6 mmHg | 12:45 AM | | | |
| DewPoint | | | | | 1997 - 19 | | | |
| Max : | 61.5 °F | 03:32 AM | Min : | 59.7 °F | 12:00 AM | | Clear | Exit |

Max/Min History

| idoor Humic | aity | | | | | Wind Speed | 1 | |
|-------------|----------------------|-------------------|--------|------------|-------------------|-------------|------------|-------------------|
| Max: | 74 % | 01/01/17 12:00 AM | Min: | 26 % | 01/01/17 12:00 AM | Max | 2.7 m/s | 01/01/17 12:00 AM |
| utdoor Hum | nidity | | | | | Gust | | |
| Max: | 99 % | 01/01/17 12:00 AM | Min: | 10 % | 01/01/17 12:00 AM | Max | 4.6 m/s | 01/01/17 12:00 AM |
| door Temp | erature | | | | | Day Rainfa | I | |
| Max: | 81.3 ℉ | 01/01/17 12:00 AM | Min: | 60.3 ºF | 01/01/17 12:00 AM | Max | 0.24 inch | 01/01/17 12:00 AM |
| utdoor Tem | perature | | | | | Week Rainf | all | |
| Max: | 140.0 °F | 01/01/17 12:00 AM | Min: | -40.0 °F | 01/01/17 12:00 AM | Max: | 0.70 inch | 01/01/17 12:00 AM |
| ewPoint | | | | | | Month Rain | fall | |
| Max: | 139.6 ° F | 01/01/17 12:00 AM | Min: | -40.0 °F | 01/01/17 12:00 AM | Max | 0.96 inch | 01/01/17 12:00 AM |
| osolute Pre | ssure | | | | | Year Rainfa | 1 | |
| Max: | 772.2 mmHg | 01/01/17 12:00 AM | Min: | 757.1 mmHg | 01/01/17 12:00 AM | Max | 0.96 inch | 01/01/17 12:00 AM |
| ative Pres | sure | | | | | Rain rate | | |
| Max: | 770.9 mmHg | 01/01/17 12:00 AM | Min: | 755.2 mmHg | 01/01/17 12:00 AM | Max | 0.90 inch | 01/01/17 12:00 AM |
| ht | | | WindCh | ill | | Heatindex | | |
| Max: | 266522.0 lux | 01/01/17 12:00 AM | Min: | -40.0 °F | 01/01/17 12:00 AM | Max | : 140.0 ºF | 01/01/17 12:00 AM |
| /I | | | | | | | | |
| Max: | 15 | 01/01/17 12:00 AM | | | | | Clea | r Exit |

Calibration

| | × |
|------|------------------------------|
| 0.02 | inch |
| 0.02 | inch |
| 0.96 | inch |
| 0.96 | inch |
| 0.96 | inch |
| Save | Cancel |
| | 0.02 0.96 0.96 0.96 |

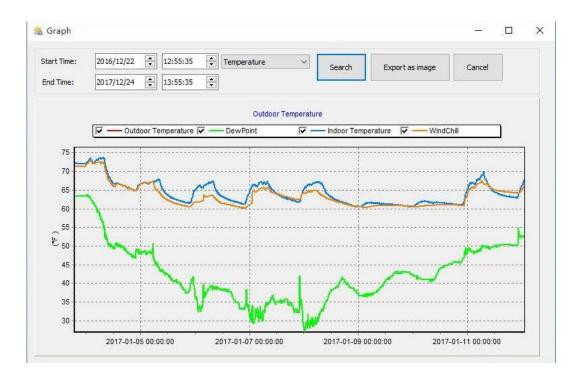
Record

| Pressu | History | | Wind | |
|--------------|---|----------|------------------------------|--|
| Relative | Graph | | Wind Speed | N 'N |
| Current: | Max: | Min: | Current: m/s Max: m/s | |
| (hpa |) (hpa |) (hpa | Gust | |
| Absolute Pre | ssure | | Current: m/s Max: m/s | |
| Current: | Max: | Min: | Carrenc (11/5) max. (11/5) | W 🔹 E |
| hpa |) (hpa |) (hpa |) Rainfall | |
| | | | Day Rainfall 40 | - |
| Indoor & Out | door | | Current: Max: 20 - | · · · |
| Indoor Temp | erature | | mm mm 0 | , s |
| Current: | Max: | Min: | Week Rainfall | |
| 0° | ℃ | O° | | Temperature |
| Indoor Humid | litu | | Current: Max: 50 - | Indoor Outdoor |
| Current: | Max: | Min: | | |
| % | % |) (% | Month Rainfall | 55 - 55 - |
| | | | 200 - 1 | 50- 50- |
| Outdoor Tem | perature | | Current: Max: 100 - | 45 - 45 - 40- |
| Current: | Max: | Min: | mm | |
| °C |) (°C |) [,- °C | Year Rainfall | 30 |
| | | | 2 | 25 - 25 - |
| Outdoor Hun | A LONG | | | 20- 20- 15 - 15 - |
| Current: | Max: | Min: | Light&UVI | 10-10- |
| /0 | | | Light | 5- 5- |
| DewPoint & \ | WindChill & Heatind | lex | Current: fc Max: fc | 0 |
| DewPoint | | | | -10-10-10-10-10-10-10-10-10-10-10-10-10- |
| Current: | Max: | Min: | UVI | -1515 - |
| °C |) (°C |) (°C | Current: | -20 |
| WindChill | | | | -25253030- |
| windchin | | | Heatindex | -3535 - |
| Current: | - °C | Min: °C | Current: (°C Max: (°C | -40 |

History

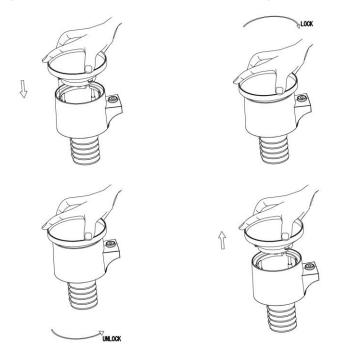
| | ime: 2017/ 1/19 | \$ 12:53:01 | Search | Export | Clear Data C | lear Memory Ca | ancel |
|---------|-------------------|-------------|-----------------------|--------------------|---------------------|---------------------|------------------|
| End Tin | ne: 2018/ 1/19 | 13:53:01 | ÷ | | | | |
| NO. | Time | Interval | Indoor Temperature(%) | Indoor Humidity(%) | Outdoor Temperature | Outdoor Humidity(%) | Relative Pressur |
| 1 | 03/26/17 12:59 AM | 5 M | 78.4 | 51 | 73.9 | 54 | 763.2 |
| 2 | 03/26/17 01:04 AM | 5 M | 78.6 | 50 | 73.9 | 54 | 763.3 |
| 3 | 03/26/17 01:09 AM | 5 M | 78.8 | 49 | 73.9 | 54 | 763.1 |
| 4 | 03/26/17 01:14 AM | 5 M | 78.6 | 49 | 73.9 | 53 | 763.0 |
| 5 | 03/26/17 01:19 AM | 5 M | 77.0 | 52 | 73.9 | 54 | 763.1 |
| 5 | 03/26/17 01:24 AM | 5 M | 76.5 | 53 | 73.9 | 54 | 762.9 |
| 7 | 03/26/17 01:29 AM | 5 M | 77.4 | 51 | 73.9 | 54 | 762.7 |
| 8 | 03/26/17 01:34 AM | 5 M | 77.2 | 53 | 73.9 | 54 | 762.7 |
| 9 | 03/26/17 01:39 AM | 5 M | 76.8 | 52 | 73.9 | 54 | 762.7 |
| 10 | 03/26/17 01:44 AM | 5 M | 76.1 | 53 | 74.1 | 54 | 762.6 |
| 11 | 03/26/17 01:49 AM | 5 M | 76.1 | 54 | 74.1 | 55 | 762.6 |
| 12 | 03/26/17 01:54 AM | 5 M | 76.1 | 54 | 74.1 | 55 | 762.5 |
| 13 | 03/26/17 01:59 AM | 5 M | 76.1 | 54 | 74.1 | 55 | 762.4 |
| 14 | 03/26/17 02:04 AM | 5 M | 77.0 | 54 | 74.1 | 55 | 762.3 |
| 15 | 03/26/17 02:09 AM | 5 M | 76.5 | 54 | 74.1 | 55 | 762.4 |
| 16 | 03/26/17 02:14 AM | 5 M | 76.5 | 53 | 74.1 | 55 | 762.1 |
| 17 | 03/26/17 02:19 AM | 5 M | 76.6 | 53 | 74.1 | 55 | 761.9 |
| 18 | 03/26/17 02:24 AM | 5 M | 76.5 | 53 | 74.1 | 55 | 761.9 |
| 19 | 03/26/17 02:29 AM | 5 M | 76.6 | 53 | 74.1 | 55 | 761.9 |
| 20 | 03/26/17 02:34 AM | 5 M | 76.5 | 53 | 74.1 | 54 | 761.9 |

Graph



Maintenance

1. Clean the rain gauge once every 3 months. Rotate the funnel counter-clockwise and lift to expose the rain gauge mechanism, and clean with a damp cloth. Remove any dirt, debris and insects. If bug infestation is an issue, spray the array lightly with insecticide.



- 2. Clean the solar radiation sensor and solar panel every 3 months with damp cloth.
- 3. Replace batteries every 1-2 years. If left in too long, the batteries may leak due to environmental challenges. In harsh environments, inspect the batteries every 3 months (when cleaning the solar panel).
- 4. When replacing the batteries, apply a corrosion preventive compound on the battery terminals, available at Amazon and most hardware stores.

5. In snowy environments, spray the top of the weather station with anti-icing silicon spray to prevent snow build up.

Specification

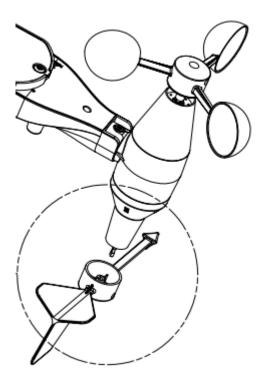
| Outdoor data Transmission distance in open field Frequency | d : 100m(300 feet) : 915 MHz |
|---|---|
| Temperature range Accuracy Resolution | : -40°C60°C (-40°F to +140°F) : + / - 1 °C : 0.1°C |
| Measuring range rel. humidity Accuracy | : 10%~99% : +/- 5% |
| Rain volume display Accuracy Resolution | 0 – 9999mm (show if outside range) + / - 10% 0.3mm (if rain volume < 1000mm) 1mm (if rain volume > 1000mm) |
| Wind speed Accuracy: | 0-50m/s (0~100mph) (show if outside range) +/- 1m/s (wind speed< 5m/s) +/-10% (wind speed > 5m/s) |
| Light | : 0-400k Lux |
| Accuracy | : +/-15% |
| Measuring interval Outdoor Senso | r Array: 16 sec |
| Water proof level | : IPX3 |
| Indoor data Measuring interval pressure / temp Indoor temperature range Resolution | 0°C50°C (14°F to + 140°F) (show if outside range) 0.1°C |
| Measuring range rel. humidity Resolution | : 10%~99% : 1% |
| Measuring range air pressure Accuracy Resolution Alarm duration | : 300-1100hPa (8.85-32.5inHg) : +/-3hpa under 700-1100hPa : 0.1hPa (0.01inHg) : 120 sec |
| PowerDisplay Console:Display Console:Sensor Array:2x A | 5V 500mA AC/DC adaptor (included) 3x AA 1.5V LR6 alkaline batteries (not included) A 1.5V LR6 alkaline batteries (not included) |
| WiFi Type and Frequency | 802.11g 2.4GHz |
| 8000060 Rev 1 8- Aug-18 | 34 |

Troubleshooting Guide

Install wind vane (If required)

Push the wind vane into the shaft. as shown in figure 1.

Tighten the set screw with as shown in figure 2. Wind vane doesn't move as freely as wind speed sensor. This damping effect is helpful in keeping wind direction measurement steady.



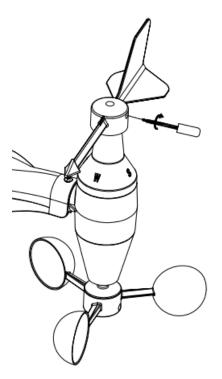


Figure 1

Figure 2

There are four letters : "N", "E", "S" and "W" around the wind direction sensor, representing direction North, East, South and West. The Wind direction sensor has to be adjusted so that the directions on the sensor are matching our real location. A wind direction error will be introduced if the wind direction sensor is not positioned correctly during installation.

Install wind speed sensor (Anemometer) (if required)

Push the wind cup into the shaft. as shown in figure 3.

Tighten the set screw with as shown in figure 4. Make sure the wind speed cups spin freely.

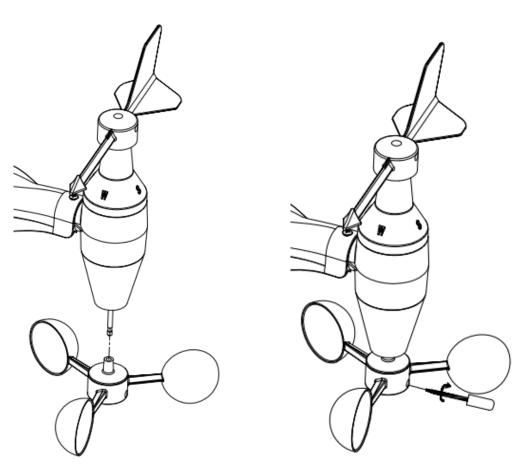


Figure 3

Figure 4

| Problem | Solution |
|------------------------------------|--|
| Wireless remote (outdoor unit) not | Check the outdoor sensor array LED for flashing. It |
| reporting in to console. | should flash every 16secs |
| | The outside sensor has an LED under the plastic, |
| There are dashes () on the display | just above the battery compartment. The LED will |
| console. | flash every 16 seconds. |
| | If the LED is not flashing every 16 seconds, Replace the batteries in the outside outdoor sensor array. If the batteries were recently replaced, check the polarity. If the sensor is flashing every 16 seconds, proceed to the next step. |
| | There may be a temporary loss of communication due to reception loss related to interference or other |
| | location factors, |

| Problem | Solution |
|---------|--|
| | |
| | or the batteries may have been changed in the |
| | remote and the console has not been reset. The |
| | solution may be as simple as powering down and |
| | up the console. |
| | |
| | 1. Make sure you have fresh batteries in |
| | the display console. |
| | 2. With the sensor array and console 10 |
| | feet away from each other, remove the |
| | batteries from the display console and |
| | wait 10 seconds. Put the batteries back |
| | in. |
| | 3. Do not touch any buttons for several |
| | minutes. |
| | ((A)) |
| | 4. The remote sensor search icon 🦄 will |
| | splash on the display. Wait several |
| | minutes for this icon to turn off. |
| | 5. If the search icon turns off and the |
| | outdoor temperature and humidity are |
| | still showing dashes (), the remote |
| | sensor is defective. If the sensor |
| | properly syncs up, proceed to the next |
| | step "How to prevent intermittent |
| | wireless communication" |
| | How to prevent intermittent wireless |
| | communication issues: |
| | 1. Install a fresh set of batteries in the |
| | remote sensor array and console. For |
| | cold weather environments, install |
| | lithium batteries. |
| | 2. The maximum line of sight |
| | communication range is 300' but most |
| | users will get 100' or less due to |
| | environmental conditions. Move the |
| | sensor and remote closer together. |
| | 3. If the sensor assembly is too close (less |
| | than 5'), move the sensor assembly |
| | away from the display console. |
| | 4. Make sure the remote sensors are not |
| | transmitting through solid metal like |
| | aluminum siding (acts as an RF shield), |
| | or earth barrier (down a hill). |
| | 5. Move the display console around |

| Problem | Solution |
|--|--|
| - | electrical noise generating devices, such as computers, TVs and other wireless transmitters or receivers. 6. Move the remote sensor to a higher location. Move the remote sensor to a closer location. |
| Temperature sensor reads too high in | Try to shade the temp/humidity sensor. Don't restrict |
| the day time. | airflow. |
| Indoor and Outdoor Temperature do not agree | Allow up to one hour for the sensors to stabilize due to signal filtering. The indoor and outdoor temperature sensors should agree within 4 °F (the sensor accuracy is ± 2 °F). Perform a temperature calibration (reference Section 2.1) |
| Indoor and Outdoor Humidity do not agree | Allow up to one hour for the sensors to stabilize due to signal filtering. The indoor and outdoor humidity sensors should agree within 10 % (the sensor accuracy is ± 5 %) Perform a humidity calibration (reference Section 2.1) |
| Relative pressure does not agree with official reporting station | You may be viewing the relative pressure, not the absolute pressure. Make sure you properly calibrate the barometer to an official local weather station (reference Section 2.1) The barometer is only accurate to ± 0.08 inHg within the following relative pressure range: 27.13 to 32.50 inHg, which corresponds to an altitude of -2,200 to 2,700 feet. At higher altitudes, expect some non-linearity or error. |
| Time is incorrect | Make sure your time zone and daylight savings time setting is correct. |
| The forecast icon is not accurate | The weather station console must run for several days to trend barometric pressure. The weather forecast is an estimation or generalization of weather changes in the next 24 to 48 hours, and varies from location to location. The tendency is simply a tool for projecting weather conditions and is never to be relied upon as an accurate method to predict the weather. |
| Moon phase is not correct | Check your calendar date and make sure it is |

| Problem | Solution |
|---|---|
| | correct |
| Display console contrast is weak | Replace console batteries with a fresh set of batteries. |
| Data not reporting to Wunderground.com | Confirm your password or key is correct. It is the password you registered on Wunderground.com. Your Wunderground.com password cannot begin with a non-alphanumeric character (a limitation of Wundeground.com, not the station). Example, \$oewkrf is not a valid password, but oewkrf\$ is valid. |
| | 2. Confirm your station ID is correct. The station ID is all caps, and the most common issue is substituting an O for a 0 (or visa versa). Example, KAZPHOEN11, not KAZPH0EN11 |
| | Make sure the date and time is correct on the console. If incorrect, you may be reporting old data, not real time data. |
| | Make sure your time zone is set properly. If incorrect, you may be reporting old data, not real time data. |
| | Check your router firewall settings. The console sends data via Port 80. |
| No WiFi connection | Check for WiFi symbol on the display. If wireless connectivity is successful the WiFi icon will be displayed in the time field. |
| | Make sure your modem WiFi settings are correct (network name, and password). |
| | Make sure the console is plugged into AC power. The console will not connect to WiFi when powered by batteries only. |
| | The console only supports and connects to 2.4 GHz routers. If you own a 5 GHz router, and it is a dual band router, you will need to disable the 5 GHz band, and enable the 2.4 |

| Problem | Solution |
|---------|--|
| | GHz band. |
| | The console does not support guest networks. |