Ultra-precision Professional Weather System
Model: WMR300 / WMR300A
USER MANUAL

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INTRODUCTION
Thank you for selecting the Oregon Scientific™ Ultra-precision Professional Weather System (WMR300 / WMR300A).

This system can provide you with weather information through several sensors with high level of accuracy. All sensors are cabled to a transmitter box which is battery and solar powered operated for wirelessly communicating and displaying the data on an indoor LCD main unit.

This system remembers the data for a time range for you to monitor and analyze the weather status. You can also export the data to your PC by cable and manage and analyze the data systematically.

The system can expand up to 8 thermometer & humidity sensors and be compatible with other weather sensors. To purchase additional sensors, please contact your local retailer.

NOTE Please keep this manual handy as you use your new product. It contains practical step-by-step instructions, as well as technical specifications and warnings you should know about.

PACKAGING CONTENTS

DISPLAY UNIT

1 x Main unit
3 x C 1.5V battery

SOLAR TRANSMITTER

1 x Solar transmitter
1 x Mounting insert
1 x AA 1.2V rechargeable battery

RAIN GAUGE

1 x Rain collector
1 x Plastic debris filter
1 x Backing metal plate
1 x U-bolt (with 2 x lock washer & 2 x flat washer & 2 x hex nut)
TEMPERATURE & HUMIDITY SENSOR

| 1 x Thermo/hygro casing with sensor installed (THGN300) | 3 x Screws (Type B, with 3 x lock washer & 3 x flat washer) |

WIND SENSOR

| 1 x Wind sensor unit (WGR300) | 4 x Nylon cable tie |

| 1 x Wind cups | 1 x Wind vane |

ASSEMBLY PARTS

| 2 x Screws (Type A, with 2 x lock washer & 2 x flat washer) | 1 x Screw driver |

ACCESSORIES - SENSORS

The system can expand up to 8 thermometer & humidity sensors and be compatible with other weather sensors. Optional wireless remote sensors (coming soon) such as those listed below can be purchased separately. For more information, please contact your local retailer.*

- Wireless repeater (Expand the transmission range)
- UV sensor (UV index & UV dose)
- Solar radiation sensor (Solar radiation, THSW & Evapotranspiration (ET))
- Aspirated fan (Increase accuracy of temp/humidity sensor)
- Soil/Leaf sensor (Soil moisture/temperature & Leaf wetness)

* Features and accessories will not be available in all countries.

OVERVIEW

MAIN UNIT

1. LCD display
2. Antenna

TRANSMITTER BOX

1. Solar panel
2. Antenna
3. Screw holes

Figure 1 - Front View

Figure 2 - Back View

Figure 3 - Front View

Figure 4 - Back View

Figure 5 – Inside View
1. Power adapter socket (optional)
2. Channel setting slide switches (SW1)
3. Color-coded connector for connecting solar panel
4. Rechargeable battery compartment
5. **RESET** button
6. **KEY** button: for wind direction calibration
7. **UV** sensor socket (not available now)
8. **SOLAR** sensor socket (not available now)
9. **RAIN** sensor socket
10. **TH** (temperature & humidity sensor) socket
11. **WIND** sensor socket
12. Pairing slide switch (SW4)
13. LED lights (blue/green/red)

### RAIN GAUGE

![Figure 6 – Top View](image)

1. Plastic debris filter
2. Rain collector
3. Collector hole

![Figure 7 – Bottom View](image)

1. Screw holes
2. Rain sensor
3. Rain collector installation hole
4. Balance indicator
5. Sensor cable
6. Tipping bucket
7. Drain holes
8. Hole for mounting insert

### TEMPERATURE & HUMIDITY SENSOR

![Figure 8](image)

1. Screws (Type B)
2. Sensor casing
3. Temperature and humidity sensor
4. Screws (pre-installed)
5. Sensor cable

### WIND SENSOR

1. Wind cups (anemometer)
2. Wind vane
3. Wind sensor holder
4. Sensor cable

### DETAILED LCD DISPLAY

#### LCD DISPLAY

<table>
<thead>
<tr>
<th>Button</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. SET</td>
<td>Enter setting modes</td>
</tr>
<tr>
<td>2. ALARM</td>
<td>Set and view status of clock and Hi/Lo alarms</td>
</tr>
<tr>
<td>3. MEM</td>
<td>View current reading and memory</td>
</tr>
<tr>
<td>4. CH</td>
<td>Toggle between 8 different channels / low battery indicator</td>
</tr>
<tr>
<td>5. UNIT</td>
<td>Change display/measurement units</td>
</tr>
<tr>
<td>6. ALARM</td>
<td>Turn alarm on or off</td>
</tr>
<tr>
<td>7.</td>
<td>Press to decrease value</td>
</tr>
<tr>
<td>8.</td>
<td>Press to increase value</td>
</tr>
<tr>
<td>9. TODAY</td>
<td>Clock / alarm / weather forecast / moon phase</td>
</tr>
<tr>
<td>10. Sunrise/sunset area</td>
<td></td>
</tr>
<tr>
<td>11. Dew point / heat index / wind chill area</td>
<td></td>
</tr>
<tr>
<td>12. Outdoor temperature and humidity area</td>
<td></td>
</tr>
<tr>
<td>13. Indoor temperature and humidity area</td>
<td></td>
</tr>
<tr>
<td>14. Wind speed / direction area</td>
<td></td>
</tr>
<tr>
<td>15. Bar chart area</td>
<td></td>
</tr>
<tr>
<td>16. Barometer area</td>
<td></td>
</tr>
<tr>
<td>17. Rainfall area</td>
<td></td>
</tr>
</tbody>
</table>

### INDOOR TEMPERATURE & HUMIDITY

![Indoor Temperature & Humidity](image)

1. **INDOOR**
2. **TODAY**
3. **MAY**
4. **MAY**
5. **MAY**
6. **MAY**
7. **MAY**
8. **MAY**
9. **MAY**
10. **MAY**
1. Indoor temperature/humidity indicator
2. HI/LO alarm: Alarms for high or low indoor temperature
3. Indoor temperature reading
4. °C / °F: Temperature unit
5. Indoor temperature trend
6. Indoor humidity reading
7. %: Humidity unit
8. Indoor humidity trend
9. TODAY/MONTHLY/MIN/MAX: Display the maximum/minimum of today’s/ monthly indoor temperature / humidity reading
10. HI/LO alarm: Alarms for high or low indoor humidity

OUTDOOR TEMPERATURE & HUMIDITY

1. Outdoor temperature/humidity indicator
2. HI/LO alarm: Alarms for high or low outdoor temperature
3. Selected channel
4. Outdoor temperature reading
5. °C / °F: Temperature unit
6. Outdoor temperature trend
7. Outdoor humidity reading
8. %: Humidity unit
9. Outdoor humidity trend
10. TODAY/MONTHLY/MIN/MAX: Display the maximum/minimum of today’s/ monthly outdoor temperature / humidity reading
11. HI/LO alarm: Alarms for high or low outdoor humidity

DEW POINT / HEAT INDEX / WIND CHILL

1. HI/LO alarm: Alarms for high or low temperature
2. Selected channel
3. Wind chill indicator (From CH1 reading only)
4. Heat index indicator
5. Dew point indicator
6. Dew point / heat index / wind chill temperature
7. °C / °F: Temperature unit
8. TODAY/MONTHLY/MIN/MAX: Display the maximum/minimum of today’s/ monthly dew point/heat index/wind chill reading

SUNRISE / SUNSET

1. AM/PM
2. Sunrise indicator
3. Sunset indicator
4. Time display

CLOCK / ALARM / WEATHER FORECAST/MOON PHASE

1. Weather forecast icon area
2. SINCE: Start date of the accumulated rainfall
3. AM/PM
4. RF clock signal reception indicator
5. Alarm display mode
6. Daily alarm indicator
7. USB port is successfully connected
8. DATA LOG: Data log information displays
9. LONG/LAT: Longitude/Latitude
10. Time zone offset
11. SEARCH: Searching for solar transmitter
12. TIME STAMP: Particular time of the selected memory
13. Solar transmitter is low battery
14. Main unit is low battery
15. Power adapter is connected
16. Moon phase area

BAR CHART

1. MAX/MIN: Maximum/minimum reading indicator of selected area
2. Bar chart area
3. LAST 24HRS/24DAYS/24 MTHS: Time range
4. Minimum reading for reference
5. Current graph reading of the corresponding area
6. Maximum reading for reference
7. IN TEMP/IN HUM/OUT TEMP/OUT HUM/DEWPOINT/HEAT INDEX/ WIND CHILL/WIND/BARO/RAINFALL: Chart mode indicators
BAROMETER

1. Altitude area indicator
2. Alarm for changes of barometric pressure
3. TODAY/MONTHLY/MIN/MAX: Display the maximum/minimum of today’s/monthly barometric pressure reading
4. Barometer trend
5. Hourly records indicator (From -24 to 0)
6. inHg / mmHg / mb / hPa: Barometer unit
7. M / FEET: Altitude unit
8. Barometer reading

RAINFALL

1. HI alarm: Alarms for high rain rate and past 24-hour rainfall.
2. TODAY/MONTHLY/MAX: Display the maximum of today’s/monthly rainfall/rain rate reading
3. Hourly records indicator (From -24 to 0)
4. RATE: Rainfall rate
5. THIS HOUR/ACCUM/PAST 24hrs: Selected time range
6. In/mm: Rainfall unit; In/hr / mm/hr: Rain rate unit
7. Rain reading display
8. Rain area indicator

INSTALLATION

Please prepare some tools before starting your installation. You may need some types of screw drivers, wrenches or an electric drill.

SET UP RAIN SENSOR & THERMO / HYGRO SENSOR

The rain gauge collects rain and takes rainfall readings. The transmitter box can wirelessly transmit data to the main unit.

SET UP WIND SENSOR

The wind sensor takes wind speed and direction readings.

SET UP TRANSMITTER BOX

1. Approach the mounting ring of the transmitter box to the rain gauge, and align mounting ring with the bottom of the hole of the rain gauge.
2. Insert the mounting insert into the mounting ring of the transmitter box through the hole of the rain gauge with some pressure. A click sound can be heard.

CABLE CONNECTIONS

It is better you connect the cables of each sensors to the transmitter box before positioning the pole.

1. Unscrew to open the transmitter box.
2. Take off the rubber stopper from the cable slot.
3. Insert all the sensor cables through the cable slot.
4. Plug each sensor cable into corresponding socket that has name below the socket for recognition. A click sound can be heard.
5. Return the rubber stopper to the cable slot.
TRANSMITTER BOX-BATTERY INSTALLATION

The solar panel on transmitter box is an energy saving feature, which is an environmentally friendly way to provide power to the sensors and prolongs battery life. It can entirely provide power to the supplied rechargeable battery. Sensors can operate entirely on the rechargeable battery power. Locate the transmitter box under direct sunlight for power supplying by the solar panel.

The rechargeable battery from factory is not with full battery for long time use and it probably becomes low battery during the shipping. We recommend you to charge it for several hours by the connected solar panel.

You can also purchase a power adapter separately for directly providing power to the transmitter box. The output voltage of the power adapter is 3V. Route the adapter cable through the cable slot.

Please check the solar panel connection. If it is not firmly plugged, please re-connect the solar panel:

Plug the end of color-corded connector into corresponding socket in the transmitter box as shown below and place the wires neatly inside the box.

To install the rechargeable battery:

Insert the battery into the battery compartment, matching the polarity +/−.

![Battery Compartment](image)

CHANNEL SETTING

Your weather station system can expand with up to 8 sets of thermometer & humidity sensors, and one of each wind and rain sensors, which share one main unit to display the weather readings. You can number each transmitter box with an independent channel ID (1-8) by sliding the switches.

Please follow the below chart to adjust the sliding switches of SW1:

<table>
<thead>
<tr>
<th>CH</th>
<th>PIN 2</th>
<th>PIN 3</th>
<th>PIN 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channel 1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Channel 2</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Channel 3</td>
<td>0</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Channel 4</td>
<td>0</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Channel 5</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Channel 6</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Channel 7</td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Channel 8</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

For obviously indicate the status of your channel, you can turn on the LED light in the corresponding transmitter box by sliding the PIN 1 switch to 1.

<table>
<thead>
<tr>
<th>Function</th>
<th>PIN 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disable LED</td>
<td>0</td>
</tr>
<tr>
<td>Enable LED</td>
<td>1</td>
</tr>
</tbody>
</table>

After setting, please turn off the LED light by sliding the PIN 1 switch to 0 to save power, and then close the box by tightening the screws.

NOTE The flashing LED indicates a normal transmission (See LED Light Indicator).

REMOVE SETTING

For removing the previous setting from the transmitter box, you can press RESET and KEY at a time, then only release RESET, red light flashes 5 times. Then release KEY. The channel setting and calibrated wind direction are all removed from the transmitter box.

LED LIGHT INDICATOR

There are three colors of LED lights in transmitter box, green, red and blue. Different color combinations indicate different status.

<table>
<thead>
<tr>
<th>Light Color</th>
<th>Operations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue-&gt;green-&gt;red</td>
<td>Flash once when you (Press and )release RESET</td>
</tr>
<tr>
<td>Red flashes every second</td>
<td>Flash 5 times then remove setting of all the sensors from transmitter box (See Remove setting section)</td>
</tr>
<tr>
<td>Red</td>
<td>Wind direction calibration</td>
</tr>
<tr>
<td>Blue</td>
<td>A normal transmission (WMR300A)</td>
</tr>
<tr>
<td>Green</td>
<td>A normal transmission (WMR300)</td>
</tr>
</tbody>
</table>

SENSORS INSTALLATION

You have three options to install the sensors.

The transmitter box is capable of transmitting data wirelessly an approximate operating range of 300m (1000 feet). Ideal placements for the sensor would be in any location on the roof of a building that is in an open area away from trees or other obstructions preventing from the wind flow for an accurate reading. Additionally, locate the transmitter box at the direct sunlight for power supplying by the solar panel.

Solar panel facing: If you reside in the:

<table>
<thead>
<tr>
<th>Solar panel facing</th>
<th>If you reside in the:</th>
</tr>
</thead>
<tbody>
<tr>
<td>North</td>
<td>Southern Hemisphere</td>
</tr>
<tr>
<td>South</td>
<td>Northern Hemisphere</td>
</tr>
</tbody>
</table>

NOTE Make sure the temperature and humidity sensor should be located at least 1.5 meters above the ground surface to avoid the ground temperature affecting accuracy of the temperature and humidity sensor.

Option 1: All sensors are installed on a pole.

1. Locate one U-bolt without flat washers, lock washers and hex nuts into the gap of the rain gauge (Figure 1).
2. Let the pole fully approach to the inner of the U-bolt (Figure 2).
3. Locate the other U-bolt without flat washers, lock washers and hex nuts into the screw holes of the rain gauge (Figure 3).
4. Put the backing metal plate through the U-bolt and securely tighten two pairs of the flat washers, lock washers and hex nuts over the plate (Figure 4) by wrench.
5. Insert the two ends of the first U-bolt into the screw holes of the wind sensor (Figure 5).
6. Tighten the other two pairs of flat washers, lock washers and hex nuts on the U-bolt of the wind sensor by wrench (Figure 6).

NOTE Please take off the rain collector before installation and choose a pole with the diameter that is about 32-45mm.

1. Locate one U-bolt without flat washers, lock washers and hex nuts into the gap of the rain gauge (Figure 1).
2. Let the pole fully approach to the inner of the U-bolt (Figure 2).
3. Locate the other U-bolt without flat washers, lock washers and hex nuts into the screw holes of the rain gauge (Figure 3).
4. Put the backing metal plate through the U-bolt and securely tighten two pairs of the flat washers, lock washers and hex nuts over the plate (Figure 4) by wrench.
5. Insert the two ends of the first U-bolt into the screw holes of the wind sensor (Figure 5).
6. Tighten the other two pairs of flat washers, lock washers and hex nuts on the U-bolt of the wind sensor by wrench (Figure 6).

NOTE Make sure the water bubble in the balance indicator on the rain gauge stay within the circle. Check the balance status regularly for an accurate rainfall rate reading.
7. Follow the instructions in sections of Cable Connections, Transmitter Box - Battery Installation and Channel Setting.
8. Securely locate the pole in your desired outdoor area.
9. Route the excessive cables neatly by using the provided cable ties.

**NOTE** 6 meters wind sensor cable is provided for you to locate the wind sensor separately from the pole like in Option 2 and Option 3. Route the excessive cables if necessary.

**NOTE** Put the plastic debris filter into the rain collector. Please check the filter regularly and ensure it is not fully covered by the leaves or other objects.

Option 2: Wind sensor is installed separately; other sensors with transmitter box are installed on a pole.
1. Follow the steps 3-4 in Option 1 to install the temperature/hygro sensor and rain sensor on a pole.
2. Insert the Type A screws into the wind sensor. Securely screw them into your desired location using wrench.
3. Follow the steps 7-9 in Option 1 to complete the installation.

Option 3: Excepting wind sensor is installed on a pole; other sensors with transmitter box are installed separately.
1. Follow the steps 5-6 in Option 1 to install the wind sensor on a pole.
2. Insert the Type A screws into the wind sensor. Securely screw them into your desired location using wrench.
3. Follow the steps 7-9 in Option 1 to complete the installation.

**Note** Do not use rechargeable batteries. It is recommended that you use alkaline batteries with this product for longer performance.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Image" /></td>
<td>Main unit batteries low</td>
</tr>
<tr>
<td><img src="image2.png" alt="Image" /></td>
<td>Transmitter box(es) batteries low</td>
</tr>
<tr>
<td><img src="image3.png" alt="Image" /></td>
<td>Transmitter box(es) / main unit batteries low</td>
</tr>
</tbody>
</table>

For continuous use, install the power adapter. The batteries are for back-up use only. Plug the power adapter into an electrical outlet not controlled by a wall switch.

**NOTE** The power adapter is intended to be correctly oriented in a vertical or floor mount position. The prongs are not designed to hold the plug in place if it is plugged into a ceiling, under-the-table or cabinet outlet.

**PAIRING SENSORS / REMOVE SENSORS**

To pair a sensor:
1. The SW4 pairing switch in transmitter box is set to 1 (ON).
2. Press **TODAY** area.
3. Press and hold **SET** and **UNIT** at a time until you enter sensor setup mode. (All sensor readings disappear on the screen, • displays on the screen.)
4. Press **SEL** or **SEL** to select the channel you want to add the sensor. The channel in dash mode (• displays) is available for pairing a sensor.
5. Press and hold **SET** for 2 seconds. There is a beep. Press anywhere on the panel not in **TODAY** area.
6. **SEARCH** indicator in **TODAY** area flashes to do pairing.
7. When **SEARCH** disappears and the selected channel of sensor displays the weather reading on the screen, the pairing is complete and successful.

**NOTE** The main unit searches the sensor for about 10 minutes. Please complete the pairing within an hour after you switch on the pairing switch in the transmitter box. Otherwise, you need to turn off the pairing switch, and then switch it on again.

**NOTE** Make sure you calibrate the direction of wind vane on the wind sensor after adding sensors, see **Direction Calibration** for details.

**TIP** The transmission range may vary depending on many factors. You may need to experiment with various locations to get the best results. Make the antenna of the transmitter box and the one on the main unit be parallel to get a better pairing performance.

To remove a sensor:
1. Press **TODAY** area.
2. Press and hold **SET** and **UNIT** at a time until you enter sensor setup mode. (The weather reading disappears on the screen, • displays on the screen.)
3. Press **SEL** or **SEL** to select the channel of the sensor you want to remove. You can only remove the sensor that the reading is not in dash mode (• displays).
4. Press and hold **MEM** for at least 2 seconds. There is a beep and then the sensor is successfully removed from the main unit.

**CLOCK**

**MANUALLY SET CLOCK**

**NOTE** To set the clock/calendar manually, disable the clock signal reception first (see To Enable / Disable signal reception).

To manually set the clock / calendar:
1. Press **TODAY** area to activate. • displays next to the area and the tool bar displays at the below of the screen.
2. Press and hold **SET** on the tool bar, then toggle **SET** between time zone offset, day time saving options, 12/24 hr format, hour, minute, year, day/month format, month, day, weekday, language, latitude and longitude .
3. Once in desired setting, press **SEL** or **SEL** to change the settings.
4. Press:
   - **SET** to confirm and continue to next setting
   - **SEL** to confirm and continue to next setting
   - **SEL** to confirm

**NOTE** For WMR 300, the range of time zone offset is between -12 and +12. You should manually input the time zone of your location, please check your local weather observatory for detail. For example, Hong Kong should be set to +8.

**NOTE** The language options are English (**E**), Russian (**R**), Spanish (**S**), Italian (**I**), German (**D**) and French (**F**).

**NOTE** To set the latitude and longitude of your location. Please refer to your local weather observatory website. The latitude and longitude input affects the sunrise/sunset time.
Meaning
Waning Crescent
Full Moon
Third quarter
Waning Gibbous

Extreme danger
Caution
Full Moon
Falling
Steady
Strong risk of dehydration /
Possibility of heat dehydration
Possibility of heat exhaustion
Heat exhaustion likely

NOTE
Excepting the latitude and longitude, AUTO/DST (Daylight saving time)/ST (Standard time) settings also affect the sunrise/sunset time. If AUTO is set, the sunrise/sunset time follows the DST/ST setting of the RF clock data. If ST is set, the sunrise/sunset time assumes standard time. If DST is set, the sunrise/sunset time assumes daylight saving time.

To select clock display mode:
Press area repeatedly to toggle among:
• Clock with seconds
• Clock with weekday
• Date with year

CLOCK RECEPTION
This product is designed to synchronize its clock automatically with a clock signal.

WMR300:
Slide switch to EU / UK to select the desired signal and manually set clock by selecting time zone between -12 and +12.
• EU: DCF-77 signal: within 1500km (932 miles) of Frankfurt, Germany.
• UK: MSF-60 signal: within 1500km (932 miles) of Anthorn, England.

NOTE
Press RESET whenever you change EU / UK setting.

WMR300A:
• WWVB-60 signal: within 3200km (2000 miles) of Fort Collins Colorado. Manually set clock to select time zone Pacific (P) / Mountain (M) / Central (C) / Eastern (E).

The icons below indicate the status of the clock reception signal.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flashing</td>
<td>Time is synchronized, but not updated once during the last 48 hours.</td>
</tr>
<tr>
<td>Receiving signal is weak</td>
<td></td>
</tr>
<tr>
<td>Flashing</td>
<td>Time is synchronized and updated at least once during the last 48 hours.</td>
</tr>
<tr>
<td>Receiving signal is strong</td>
<td></td>
</tr>
</tbody>
</table>

NOTE
Reception takes 4-10 minutes for synchronizing.

To enable / disable signal reception:
Press and hold a place within area to enable / disable signal reception. A beep will sound to confirm action.

ALARM CLOCK
To set the daily alarm:
1. Press area to activate. displays next to the area and the tool bar displays at the bottom of the screen.
2. Press area repeatedly until displays.
   • Press to turn on the daily alarm. and displays.
   • Press to turn off the daily alarm. disappears.
3. Press to change the time display between 12hr/24hr format.
4. Press and hold to enter editing mode.
5. Press or to edit and press to confirm editing.
6. Press anywhere not in area to exit.

MOON PHASE
In the Northern hemisphere, the moon waxes (amount of moon we see that grows after the New moon) from the right. So, the sunlit part of the moon moves from right to left in the Northern hemisphere while in the Southern hemisphere, it moves from left to right. The direction depends on the latitude of the person observing it.

Below are two tables which diagrammatically illustrate how the moon will appear on the main unit.

Northern hemisphere

<table>
<thead>
<tr>
<th>New Moon</th>
<th>Waxing Crescent</th>
<th>First quarter</th>
<th>Waxing Gibbous</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Full Moon</td>
<td>Waning Gibbous</td>
</tr>
</tbody>
</table>

Southern hemisphere

DEWPOINT / HEAT INDEX / WIND CHILL
To view dew point:
• Press area repeatedly until DEWPOINT displays.

To view heat index:
• Press area repeatedly until HEAT INDEX displays.

<table>
<thead>
<tr>
<th>Temperature Range</th>
<th>Warning</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>27°C to 32°C (80°F to 89°F)</td>
<td>Caution</td>
<td>Possibility of heat exhaustion</td>
</tr>
<tr>
<td>32°C to 40°C (90°F to 104°F)</td>
<td>Extreme Caution</td>
<td>Possibility of heat dehydration</td>
</tr>
<tr>
<td>41°C to 54°C (105°F to 129°F)</td>
<td>Danger</td>
<td>Heat exhaustion likely</td>
</tr>
<tr>
<td>54°C to 92°C (130°F to 151°F)</td>
<td>Extreme danger</td>
<td>Strong risk of dehydration / sun stroke</td>
</tr>
</tbody>
</table>

WEATHER FORECAST
This product forecasts the next 12 to 24 hours of weather within a 30-50 km (19-31 mile) radius (US – with a 75% accuracy).

<table>
<thead>
<tr>
<th>Icon</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sunny</td>
<td></td>
</tr>
<tr>
<td>Partly cloudy</td>
<td></td>
</tr>
<tr>
<td>Cloudy</td>
<td></td>
</tr>
<tr>
<td>Rainy</td>
<td></td>
</tr>
<tr>
<td>Snowy</td>
<td></td>
</tr>
</tbody>
</table>

TEMPERATURE AND HUMIDITY
To view temperature area:
- Press to view temperature area. displays on top of the temperature reading.

To change channel (outdoor temperature only):
- Press to change channel.

To select the temperature measurement unit:
- Press to select °C / °F.

NOTE
The unit of all temperature related displays will be changed simultaneously.

To view humidity readings:
- Press to view humidity area. displays on top of the humidity reading.

To view temperature and humidity trend:
The temperature and humidity trend icons are based on recent sensor readings. The trend lines are shown next to the temperature and humidity readings. The trend is shown as follows:

Rising
Steady
Falling

To view dew point:
• Press area repeatedly until DEWPOINT displays.

To view heat index:
• Press area repeatedly until HEAT INDEX displays.

<table>
<thead>
<tr>
<th>Temperature Range</th>
<th>Warning</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>27°C to 32°C (80°F to 89°F)</td>
<td>Caution</td>
<td>Possibility of heat exhaustion</td>
</tr>
<tr>
<td>32°C to 40°C (90°F to 104°F)</td>
<td>Extreme Caution</td>
<td>Possibility of heat dehydration</td>
</tr>
<tr>
<td>41°C to 54°C (105°F to 129°F)</td>
<td>Danger</td>
<td>Heat exhaustion likely</td>
</tr>
<tr>
<td>54°C to 92°C (130°F to 151°F)</td>
<td>Extreme danger</td>
<td>Strong risk of dehydration / sun stroke</td>
</tr>
</tbody>
</table>
NOTE: Heat index is only calculated when temperature is 80° F / 27°C or above.

To view wind chill:
- Press \[\text{[?]}\] area repeatedly until WIND CHILL displays.

SUNRISE / SUNSET

NOTE: Make sure you input latitude and longitude of your location in TODAY area, which affects the sunrise/sunset time.

NOTE: Excepting the latitude and longitude, daylight saving time setting also affects sunrise and sunset (See Manually Set Clock).

You can view the sunrise or sunset time in \[\text{[?]}\] area.
- Press \[\text{[?]}\] SUNRISE/SUNSET area \[\text{[?]}\] displays on the top of the time display.
- Press \[\text{[?]}\] UNIT to change the time display between 12hr/24hr format.

WIND

DIRECTION CALIBRATION

Before pairing a wind sensor, make sure the head of the wind vane of that sensor point to the north while pressing KEY for 2 seconds in the transmitter box to calibrate the direction. If the calibration is successful, red light flashes once. You can use a compass to look for an accurate direction of north if necessary.

However, if you are the user in North America, there are already 15°(degree) variations existing between the true north and a compass reading of north. You can consult your local observatory about this issue.

If it is difficult to control the wind vane after installation, you can calibrate through setting on main unit.

1. Make a compass approach to the wind vane.
2. Calculate the angle between the current direction and the north direction.
3. Press \[\text{[?]}\] wind area to activate.
4. Press and hold \[\text{[?]}\] , and then press \[\text{[?]}\] or \[\text{[?]}\] to calibrate the angle value.
5. Press \[\text{[?]}\] again to confirm setting.

For example, inputting the angle value that you want to set as north, then you input 25 degree in the calibration mode. Once you return to the idol mode, the direction reading displays 0 degree, which is the north.

NOTE: You need to calibrate the wind sensor again if you want to relocate the sensor.

WIND SPEED / DIRECTION

To select wind display mode:
Press \[\text{[?]}\] wind area to toggle between:
- GUST (Gust)
- AVG (Average)

To select wind speed unit:
Press \[\text{[?]}\] UNIT to switch among:
- Knots (knots)
- Kilometres per hour (km/h)
- Miles per hour (mph)
- Metres per second (m/s)

The wind level is shown by a series of text icons:

<table>
<thead>
<tr>
<th>LIGHT</th>
<th>MODERATE</th>
<th>STRONG</th>
<th>STORM</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-8 mph (3-13 km/h)</td>
<td>9-25 mph (14-41 km/h)</td>
<td>26-54 mph (42-87 km/h)</td>
<td>(&gt;55 mph (&gt;88 km/h)</td>
</tr>
</tbody>
</table>

To read the wind direction:

<table>
<thead>
<tr>
<th>Status</th>
<th>Wind Direction Indicator</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>GUST</td>
<td>➤</td>
<td>Real-time wind direction</td>
</tr>
<tr>
<td>AVG</td>
<td>➤</td>
<td>Real-time average wind direction</td>
</tr>
<tr>
<td>AVG</td>
<td>➤ (Max 6 sets)</td>
<td>Wind direction of last 1 hour</td>
</tr>
</tbody>
</table>

NOTE: The wind chill factor is based on the combined effects of temperature and wind speed. Displayed wind chill is calculated solely from channel 1 thermometer and humidity sensor.

BAROMETRIC PRESSURE

The altitude reflects distance from sea level at your position.

To set the altitude level compensation for the barometric readings:
1. Press \[\text{[?]}\] barometer area to toggle between altitude and current barometer.
2. Press \[\text{[?]}\] to select inHg (inches of mercury) / mmHg (millimetres of mercury) / mb (millibars per hectopascal) / hPa.

To view pressure trend:

The barometric pressure trend icons are based on recent sensor readings.

The trend lines are shown next to the pressure readings. The trend is shown as follows:

<table>
<thead>
<tr>
<th>Rising</th>
<th>Steady</th>
<th>Falling</th>
</tr>
</thead>
<tbody>
<tr>
<td>➡, ➡️</td>
<td>➡️, ➡️</td>
<td>➡️, ➡️</td>
</tr>
</tbody>
</table>

RAINFALL

To select rainfall display mode:
Press \[\text{[?]}\] rain area to toggle between:
- THIS HOUR (Hourly rainfall)
- RATE (Rain rate)
- ACCUM (Accumulated rainfall)
- PAST 24 hrs (Rainfall recorded in the past 24 hours)

To select the measurement unit for the rainfall:
Press \[\text{[?]}\] to select between mm (millimeter) and in (inch).

To select the measurement unit for the rainfall rate:
Press \[\text{[?]}\] to select between in/hr (inch per hour) and mm/hr (millimeter per hour).

ACCUMULATED RAINFALL

To display accumulated rainfall:
Press \[\text{[?]}\] rain area repeatedly until ACCUM display. (SINCE displays in the clock area that displays the start date/time of rainfall recording simultaneously).

To reset SINCE time:
Press and hold MEM to set current time as start of accumulated rainfall records. The rainfall record is cleared and reset to 0.

BAR CHART

The bar chart simultaneously displays the data while you press on the corresponding area.

To select chart display mode:
Press on the below areas to toggle among these chart displays:
- IN TEMP (Indoor temperature)
- IN HUM (Indoor humidity)
- OUT TEMP (Outdoor temperature)
- OUT HUM (Outdoor humidity)
- DEWPOINT (Dew point)
- HEAT INDEX (Heat index)
To select time range display mode:
Press \( \text{MEM} \) bar chart area to toggle the chart records between the following time ranges.
- **LAST 24 HRS** (Past 24 hours)
- **LAST 24 DAYS** (Past 24 days)
- **LAST 24 MTHS** (Past 24 months)

To select record range display mode:
Press \( \text{MEM} \) bar chart area, and then press \( \text{MEM} \) to toggle the chart records between the following ranges.
- **MAX** (Maximum record)
- **MIN** (Minimum record)

**NOTE** The purpose of the bar chart is to provide a quick comparison between the records. Changing the measurement unit will have corresponding effect on the bar chart display.

### MAX / MIN OF TODAY / MONTHLY RECORDS

<table>
<thead>
<tr>
<th>Area</th>
<th>Type of Memory</th>
<th>Indicators</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>Current indoor / outdoor temperature</td>
<td>MONTHLY MAX / MIN, TODAY MAX / MIN</td>
</tr>
<tr>
<td></td>
<td>Heat index</td>
<td>MONTHLY MAX, TODAY MAX</td>
</tr>
<tr>
<td></td>
<td>Wind chill</td>
<td>MONTHLY MAX, TODAY MIN</td>
</tr>
<tr>
<td></td>
<td>Dewpoint</td>
<td>MONTHLY MAX, TODAY MIN</td>
</tr>
<tr>
<td>Humidity</td>
<td>Current indoor / outdoor humidity</td>
<td>MONTHLY MAX / MIN, TODAY MAX / MIN</td>
</tr>
<tr>
<td>Wind</td>
<td>Gust wind speed</td>
<td>MONTHLY MAX, TODAY MAX</td>
</tr>
<tr>
<td>Barometer</td>
<td>Barometer</td>
<td>MONTHLY MAX / MIN, TODAY MAX / MIN</td>
</tr>
<tr>
<td>Rain</td>
<td>Rain rate</td>
<td>MONTHLY MAX, TODAY MAX</td>
</tr>
<tr>
<td></td>
<td>Rainfall</td>
<td>MONTHLY MAX, TODAY MAX</td>
</tr>
</tbody>
</table>

To view memory records:
1. Press desired area to activate.
2. Press \( \text{MEM} \) to toggle between MIN/MAX of TODAY/MONTHLY recorded readings.

To clear individual area records:
1. Select a record in memory.
2. Press and hold \( \text{MEM} \) for 2 seconds.
3. After all the data cleared, the display shows the new time remaining. Delete process is complete and successful.

**NOTE** When **MAX/MIN** reading displays, the corresponding timestamp will be displayed in the **TODAY** area.

### HOURLY RECORDS

<table>
<thead>
<tr>
<th>Display</th>
<th>Hourly readings of up to</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barometer</td>
<td>24 hours back</td>
</tr>
<tr>
<td>Hourly Rainfall</td>
<td>24 hours back</td>
</tr>
</tbody>
</table>

To view hourly records:
1. Press desired area to activate until the hour frame displays.

### DATA LOG

The weather data can be automatically saved by setting data logger, and then you can view the data through a PC program by uploading to the PC.

**To set data log:**
1. Press **TODAY** area, then press **MEM** to activate **DATA LOG** mode.
2. Press and hold **SET**.
3. Press \( \downarrow \) or \( \uparrow \) to select frequency of data recording (1 / 5 / 15 / 60 minutes).
4. Press **SET**.
5. Number of days memory will allow for records will be displayed.

### To view remaining days for records:
Press **MEM** area.

**NOTE** When **DATA LOG** is almost full, **DATA LOG** flashes to remind you to transfer the data to PC for storage. Otherwise, data logger cannot log any more data when it is full.

### To upload records to PC:
Plug the small end of the USB cable to USB port on the main unit and the big end of the cable into the USB port of the PC. The records will be uploaded onto the software run by the PC via the USB cable.

**NOTE** PC program provided must be installed before uploading of records from main unit.

### ALARM

Weather alarms are used to alert you of certain weather conditions. Once activated, the alarm will turn on and start flashing when a certain criterion is met. The alarm does not flash and goes back to normal until the reading is not beyond the alarm setting anymore.

**Area** | **Type of Alarm** | **Alarm**
---|---|---
Temperature | Current indoor / outdoor temperature | HI / LO
| Heat index | HI / LO
| Dew point | HI / LO
| Wind chill | HI / LO
| Humidity | Current indoor / outdoor humidity | HI / LO
| Barometer | Barometric pressure | *
| Rain | Rain rate | HI
| Past 24-hour rainfall | HI

*Barometric pressure alarm is a pressure drop alarm*

**To set the alarm:**
1. Press desired area to activate.
2. Toggle **ALARM** to display current reading and **HI** / **LO** alarm.
3. Press and hold **ALARM**.
4. Press \( \downarrow \) or \( \uparrow \) to set the desired values.
5. Press **ALARM** to confirm and continue to next setting.
To enable / disable alarms:
1. Press desired area to activate.
2. Press \text{ALARM} to display set \text{HI} / \text{LO} alarm.
3. Press \text{ALARM} to turn alarm on or off.

\text{NOTE} \ - \ - \ indicates alarm is not set / disabled.

\text{NOTE} \ Clock alarm sound is different from weather alarms to allow for easy differentiation by user.

To silence any alarm:
• Press anywhere on the touch panel.

\text{OR} \ - \ The alarm automatically turns off after 2 minutes.

\text{NOTE} \ When alarm is on, the channel of triggered alarm will be flashed and alarm sound lasts for 2 minutes.

\section*{BACKLIGHT}
Press anywhere on the touch panel to activate the backlight for 8 seconds.

\text{OR} \ - \ If the main unit is powered by power adapter, switch the \text{LIGHT} to \text{ON} in the main unit compartment. The light will be on until you switch it \text{OFF}.

\text{NOTE} \ - \ You need to take off the battery compartment cover to do switching.

\section*{RESET}
\textbf{Main unit:}
Press \text{RESET} to return to the default settings.

\text{NOTE} \ - \ You need to take off the battery compartment cover to do switching.

\textbf{Transmitter box:}
Press \text{RESET} to remove the record of the calibrated wind direction.

\section*{MAINTENANCE}
Each sensor of this kit has a durable plastic casing that should retain its luster for many years. It is better to do regular maintenance to keep the sensors with high accuracy every half year. Do cleaning the casing only with a soft cloth slightly dampened with water or a mild soap. Please use screw drivers or wrench to take some parts off if necessary.

Electrical storms can sometimes cause power surges harmful to electronic equipment. For your own safety, take caution when using the main unit or doing maintenance during storms.

\section*{TO MAINTAIN THE THERMO/HYGRO SENSOR}
1. Remove the rain collector from the rain gauge.
2. Unscrew the type B screws from the rain gauge.
3. Unscrew the three screws from the bottom of the thermo/hygro sensor casing.
4. Clean the casing excluding the one with sensor by water, and then remove the dust around the sensor carefully.
5. Install all the parts until they are entirely dried.

\text{NOTE} \ - \ If the temperature and humidity readings are still strange and inaccurate, you need to consider replacing this sensor, please contacting our customer service for the details.

\section*{TROUBLE SHOOTING}
\begin{tabular}{|c|c|c|}
\hline
\textbf{Problem} & \textbf{Symptom} & \textbf{Remedy} \\
\hline
Barometer & Strange readings & Check altitude setting on the main unit. \\
\hline
Wind sensor & No updates of the wind direction & Check the wind vane. \\
\hline
Display dashes on main unit & & 1. Check the connections. \\
& & 2. Check the channel setting. \\
& & 3. Check the pairing successful or not. \\
\hline
Rain sensor & No readings & 1. Check the cable tie on the tipping bucket to be cut away or not. \\
& & 2. Check the balance indicator. \\
& & 3. Check the plastic filter in rain collector. \\
& & 4. Check the connections. \\
\hline
Strange readings & & 1. Check the plastic filter in rain collector. \\
& & 2. Check the balance indicator. \\
\hline
Temp/hygro sensor & Display dashes & 1. Check the connections. \\
& & 2. Check the pairing. \\
& & 3. Check the channel setting. \\
No outdoor temp/hygro readings & & 1. Check the rechargeable battery in transmitter box. \\
& & 2. Check the power adapter connection and main unit batteries status. \\
& & 3. Do maintenance for the sensor. \\
\hline
Calendar & Strange date / month & 1. Change language. \\
& & 2. Check the calendar setting. \\
\hline
Clock & Cannot adjust clock & Disable radio-controlled clock. \\
& & 1. Check batteries status. \\
& & 2. Reset the main unit. \\
& & 3. Manually activate radio controlled clock. \\
Cannot auto-synchronize & & 1. Check batteries status. \\
& & 2. Reset the main unit. \\
Sunrise/ Sunset & Strange readings & 3. Manually activate radio controlled clock. \\
& & 1. Set longitude/latitude. \\
& & 2. Check the daylight saving time setting. \\
Transmitter box & LED light(s) do not flash & 1. Check the switch. \\
& & 2. Check the polarity of the rechargeable battery. \\
& & 3. Check the connection of the solar panel. \\
Sensors pairing & Time is too long & 1. Adjust the antennas to be parallel. \\
& & 2. Reset the pairing switch (switch off then on again). \\
\hline
\end{tabular}

\section*{PRECAUTIONS}
\begin{itemize}
\item Do not subject the unit to excessive force, shock, dust, temperature or humidity.
\item Do not cover the ventilation holes with any items such as newspapers, curtains etc.
\item Do not immerse the unit in water. If you spill liquid over it, dry it immediately with a soft, lint-free cloth.
\item Do not clean the unit with abrasive or corrosive materials.
\item Do not tamper with the unit's internal components. This invalidates the warranty.
\item Only use fresh batteries. Do not mix new and old batteries.
\item Images shown in this manual may differ from the actual display.
\item When disposing of this product, ensure it is collected separately for special treatment.
\item Placement of this product on certain types of wood may result in damage to its finish for which Oregon Scientific will not be responsible. Consult the furniture manufacturer's care instructions for information.
\item The contents of this manual may not be reproduced without the permission of the manufacturer.
\item Do not dispose old batteries as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.
\item Please note that some units are equipped with a battery safety strip. Remove the strip from the battery compartment before first use.
\end{itemize}

\text{NOTE} \ - \ The technical specifications for this product and the contents of the user manual are subject to change without notice.
### Specifications

#### Main Unit

<table>
<thead>
<tr>
<th>Dimensions (L x W x H)</th>
<th>205 x 146 x 52.5 mm (8.07 x 5.75 x 2.07 inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>740g (1.63lbs) with batteries; 540 g (1.2lbs) without battery</td>
</tr>
<tr>
<td>Battery</td>
<td>3 x C size 1.5V batteries</td>
</tr>
<tr>
<td>Adaptor</td>
<td>DC 6V 100mA adapter</td>
</tr>
<tr>
<td>Support channels</td>
<td>1wind, 1rain, 1UV, 1solar and 1–8 thermo/hygro</td>
</tr>
</tbody>
</table>

#### Indoor Barometer

<table>
<thead>
<tr>
<th>Barometer unit</th>
<th>mb, hPa, inHg and mmHg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring range</td>
<td>540 to 1,100mb/hPa</td>
</tr>
<tr>
<td>Accuracy</td>
<td>+/-1mb/hPa between 677 &amp; 1,016hPa</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.1mb/hPa, 0.01inhg, 0.1mmHg converted from the pressure of 0.1mb resolution</td>
</tr>
<tr>
<td>Altitude setting</td>
<td>-600m ~ 4570m (-999feet ~ 14993 feet)</td>
</tr>
<tr>
<td>User setting for offset local pressure to sea level pressure</td>
<td></td>
</tr>
</tbody>
</table>

#### Indoor Temperature

<table>
<thead>
<tr>
<th>Temp. unit</th>
<th>°C or °F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Displayed range</td>
<td>0°C to 60°C</td>
</tr>
<tr>
<td>Operating range</td>
<td>0°C to 60°C</td>
</tr>
<tr>
<td>Accuracy</td>
<td>+/-0.5°C or 1°F typical at room temperature</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.1°C or 0.1°F (remark: °F convert from 0.1°C display)</td>
</tr>
<tr>
<td>Display modes</td>
<td>Current, Min and Max</td>
</tr>
<tr>
<td>Memory modes</td>
<td>Today Max &amp; Min, Monthly Max &amp; Min (with time stamp)</td>
</tr>
<tr>
<td>Alarm</td>
<td>Pressure change alarm</td>
</tr>
</tbody>
</table>

#### Indoor Relative Humidity

| Displayed range        | 0% to 99%RH |
| Operating range        | 0% to 99%RH |
| Resolution             | 1% |
| Accuracy               | +/-3% (Typical) @ 25°C |
| Display modes          | Current, Min and Max |
| Memory modes           | Today Max & Min, Monthly Max & Min (with time stamp) |
| Alarm                  | Hi / Lo |

#### Radio-Controlled / Atomic Clock

| Synchronization        | Auto or disabled |
| Clock display           | HH:MM:SS / HH:MM Weekday |
| Hour format             | 12hr AM/PM or 24hr |
| Calendar                | DD/MM/YYYY or MM/DD/YY |
| Weekday in 6 languages  | EN, FR, DE, IT, ES, RU |

#### Outdoor Temperature / Humidity Unit

<table>
<thead>
<tr>
<th>Dimensions (Ø x H)</th>
<th>Ø190 x 126 mm (87.48 x 4.96 inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>580g (1.28lbs)</td>
</tr>
<tr>
<td>Temp. unit</td>
<td>°C or °F</td>
</tr>
<tr>
<td>Displayed range</td>
<td>-40°C to 65°C</td>
</tr>
<tr>
<td>Operating range</td>
<td>-40°C to 65°C</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-45°C to 70°C</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.1°C</td>
</tr>
<tr>
<td>Accuracy</td>
<td>+/- 0.5°C</td>
</tr>
</tbody>
</table>

#### Relative Temperature

| Memory modes           | Today Max & Min, Monthly Max & Min (with time stamp) |
| Display modes          | Rain rate, Rainfall (Past 24hrs/Hourly/Accumulated) |
| Alarm                  | Hi for rain rate & past 24 hr |

#### Solar RF Transmitter Box

<table>
<thead>
<tr>
<th>Dimensions (L x W x H)</th>
<th>178 x 154 x 91.7mm (7 x 6.06 x 3.61 inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>530 g (1.19lbs)</td>
</tr>
<tr>
<td>Battery</td>
<td>1.2 V recharged battery</td>
</tr>
<tr>
<td>RF frequency</td>
<td>915MHz (US) / 868MHz (EU, UK)</td>
</tr>
<tr>
<td>Range</td>
<td>300 meters (1000 feet), line of sight no obstructions</td>
</tr>
<tr>
<td>Transmission intervals</td>
<td>Wind: 2.5~3 sec</td>
</tr>
<tr>
<td>Channel</td>
<td>1wind, 1rain, 1UV, 1solar and 1thermo/hygro</td>
</tr>
</tbody>
</table>

#### Rain Gauge

<table>
<thead>
<tr>
<th>Dimensions (L x W x H)</th>
<th>287.5 x 226 x 279 mm (11.32 x 8.90 x 10 inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>1213g (2.674lbs)</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-40 to +65°C</td>
</tr>
<tr>
<td>Unit for rainfall</td>
<td>mm and in</td>
</tr>
<tr>
<td>Range for rainfall</td>
<td>0~199.99 inches</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.01inches (0.254mm) typical</td>
</tr>
<tr>
<td>Accuracy for rainfall</td>
<td>+/- 4%</td>
</tr>
<tr>
<td>Accuracy for rain rate</td>
<td>±5% 0~ 127mm/hr (0~5 in/hr)</td>
</tr>
<tr>
<td>Memory modes</td>
<td>Max rain rate</td>
</tr>
<tr>
<td>Display modes</td>
<td>TH: 10~12 sec</td>
</tr>
<tr>
<td>Alarm</td>
<td>Hi for rain rate &amp; past 24 hr</td>
</tr>
</tbody>
</table>

#### Wind Sensor Unit

<table>
<thead>
<tr>
<th>Dimensions (L x W x H)</th>
<th>516 x 345.5 x 135 mm (20.31 x 13.60 x 5.32 inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>520g (1.15lbs)</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-40 to +65°C</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-45 to +70°C</td>
</tr>
<tr>
<td>Wind speed unit</td>
<td>m/s, km/h, mph, knots</td>
</tr>
<tr>
<td>Wind speed range</td>
<td>0~80m/s</td>
</tr>
<tr>
<td>Wind speed resolution</td>
<td>0.1mph or 0.1knot or 0.1m/s</td>
</tr>
<tr>
<td>Speed accuracy</td>
<td>+/- 0.9m/s (under 18m/s)</td>
</tr>
<tr>
<td>Direction resolution</td>
<td>1º</td>
</tr>
<tr>
<td>Memory modes</td>
<td>Today/Monthly Max gust speed with direction (with time stamp)</td>
</tr>
<tr>
<td>Display modes</td>
<td>Gust/average wind speed &amp; direction</td>
</tr>
<tr>
<td>Alarm</td>
<td>Hi for Gust speed</td>
</tr>
</tbody>
</table>
Visit our website (www.oregonscientific.com) to learn more about Oregon Scientific products.

For any enquiry, please contact our Customer Services at info@oregonscientific.com.

EU-DECLARATION OF CONFORMITY

Hereby, Oregon Scientific, declares that this Ultra-precision Professional Weather System (model: WMR300 / WMR300A) is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. A copy of the signed and dated Declaration of Conformity is available on request via our Oregon Scientific Customer Service.

COUNTRIES RTTE APPROVED COMPLIED

All EU countries, Switzerland and Norway.

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 modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

NOTE This equipment has 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 generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, 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 try to correct 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 into 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

The following information is not to be used as contact for support or sales. Please call our customer service number (listed on our website at www.oregonscientific.com), or on the warranty card for this product for all inquiries instead.

We
Name: Oregon Scientific, Inc.
Address: 19861 SW 95th Ave.Tualatin, Oregon 97062 USA
Telephone No.: 1-800-853-8883

declare that the product
Product No.: WMR300/WMR300A
Product Name: Ultra-precision Professional Weather System
Manufacturer: IDT Technology Limited
Address: Block C, 9/F, Kaiser Estate, Phase 1, 41 Man Yue St., Hung Hom, Kowloon, Hong Kong

is in conformity with Part 15 of the FCC Rules. Operation is subject to the following two conditions: 1) This device may not cause harmful interference. 2) This device must accept any interference received, including interference that may cause undesired operation.
Ultra-precision Professional Weather System
Model: WMR300 / WMR300A
USER MANUAL