WMS831
Wireless Data Logging Weather Station
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The information contained in this document is believed to be correct, but OMEGA accepts no liability for any errors it contains, and reserves the right to alter specifications without notice.
WARNING: These products are not designed for use in, and should not be used for, human applications.
INTRODUCTION
Thank you for purchasing Omega’s Weather Station with remote control. This compact and easy-to-use product features a wide variety of time and weather data, such as precise atomic time, perpetual calendar, air temperature, relative humidity, barometric pressure, wind speed and direction, rainfall, and etc.

PACKAGE CONTENTS
In this package you will find:
• One Main Unit (receiver)
• One Rain Gauge (remote rain sensor/transmitter)
• One Anemometer (remote wind sensor/transmitter)
• One Three-Channel Temperature & Humidity Sensor (transmitter)
• One 7.5V AC/DC Adapter
• Mounting Hardware with wrench tool
• One User’s Manual

Components:
• Main Unit
• AC/DC 7.5V power adaptor
• Thermo Hygrometer Sensor
• Rain Gauge
  Consists of:
  • Funnel shaped top with battery compartment
  • Rain Gauge bucket
  • Bucket see-saw mechanism
  • Protective screen
• Anemometer
  Consists of:
  • Wind Cups
  • Wind Vane
  • Anemometer arm
  • Anemometer base
• Mounting hardware:
  • 4 screws for securing rain gauge to the flat surface;
  • 4 screws for securing anemometer to vertical surface

INSTALLATION
Our Omega’s Full Weather Station #WS821 operates at 433MHz radio frequency, so no wire installation is required between the main unit (receiver) and the remote weather sensors (transmitters). The remote weather sensors include a thermo-hygrometer (temperature and humidity) sensor, anemometer (wind sensor) and a rain gauge (rain sensor). All data measured by these remote sensors is transmitted to the main unit wirelessly, with the operating range up to 328 feet (100 meters) in the open area. The Anemometer and a rain gauge must be placed outdoors to measure weather elements. Remote thermo-hygrometers can be placed indoors or outdoors, depending on the location where the temperature and humidity are to be measured. If you intend measuring outdoor temperature and humidity, place the remote sensor outdoors, preferably not in the direct sunlight.

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

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

THERMO-HYGROMETER SENSOR
FEATURES
• Remote data transmission to the main unit via 433 MHz signal
• 328 feet (100 meters) transmission range without interference
• LCD display of measured temperature and humidity
• Three (3) transmission channels selection
• Case can be wall mounted using built-in hanger
• Up to three T-H sensors per station are permitted

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

NOTE: Make sure that the remote weather sensors are easily accessible for cleaning and maintenance. We recommend cleaning the remote weather sensors periodically, as the dirt and debris may affect sensors accuracy.
A. LED INDICATOR
- Flashes once when the remote sensor transmits a reading to the main unit.
- Flashes twice when battery power is low.

B. BATTERY COMPARTMENT
Holds 2 “AA” batteries

C. RESET
Resets all readings

D. CHANNEL SWITCH
Selects the desired transmission channel from 1 to 3

E. WALL-MOUNT RECESSED OPENING
Attaches the remote sensor to the wall

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

BATTERY INSTALLATION
- Remove the screws from the battery compartment with a small Phillips screwdriver.
- Set the channel 1 through 3. The switch is located in the battery compartment. Channel 1 is typically selected if only one remote sensor is being used.
- Install 2 “AA” batteries (not included) matching the polarities shown in the battery compartment.
- Replace the battery compartment door and secure the screws.
- Secure the thermo-hygrometer remote sensor in the desired location.

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

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

RAIN GAUGE FEATURES
- Precipitation measurement
- Remote rainfall data transmission to the main unit via 433 MHz signal
- 100 feet (30 meters) transmission range without interference
- Built-in installation level
- Non-corrosive protective screen
- It is important that excess rain can flow freely away from the rain gauge.

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

A. RAIN GAUGE BUCKET
Holds all rain gauge components

B. KNOB
Secures the top on the rain gauge bucket

C. RAIN GAUGE BUCKET FEET
Allows securing the rain gauge on its place

D. FUNNEL-SHAPED TOP WITH BATTERY COMPARTMENT
Contains battery compartment and rainfall counting electronics

E. BATTERY COMPARTMENT
Holds 2 “AA” size batteries

F. SCREWS
Secure battery compartment cover

G. BUILT-IN LEVELER
Allows leveling rain gauge on the surface

H. BUCKET SEE-SAW MECHANISM
Collects the rainfall in one of its containers and self-empties once full

I. PROTECTIVE SCREEN
Protects the rain gauge funnel from debris
ASSEMBLY
- With a flashlight, look into the mounting hole that will receive the anemometer axle shaft, on the back of the wind cups. Check that the set screw is backed off appropriately, not obstructing the opening.
- Place the wind cups over the axle shaft protruding from the anemometer housing and gently slide into place.
- Insert the Allen wrench tool provided into the wind cups opening and tighten the small set screw inside.
- Test to assure the wind cups are securely mounted on the anemometer shaft and spin freely

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

ALIGNING
- Point the wind direction vane to the North (use a compass or map if necessary).
- Press “SET” button located inside battery compartment with a paper clip or similar tool. This will “SET” the local wind direction to North. Continued pressing of “SET” alternately toggles wind direction between the factory default preset or user set direction.

MOUNTING
- Securely mount the anemometer base to an appropriate vertical surface, using the fittings provided.

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

MAIN UNIT
- The main unit should be placed indoors. It measures: pressure, indoor temperature, humidity, and receives the US Atomic Clock data and data from each of the remote weather sensors.

FEATURES

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

Weather
- Weather forecast for the next 12 to 24 hour in seven large icons: Sunny, Partly Cloudy, Cloudy, Light Rain, Heavy Rain, Snowy and Unstable.
- Barometric pressure in imperial or metric units
- Altitude adjustment for pressure compensation
- 24 hour barometric pressure history chart
- Multiple weather alarms
- Indoor/Outdoor Temperature & Humidity in up to 3 remote locations (additional sensors required)
- Dew point and comfort level indicators
- Wind speed and wind gust averages and memory
- Wind direction
- Rainfall amount with minimum and maximum memory
- Operating range from 100 feet (30 meters) up to 328 feet (100 meters)

Display
- Light sensor detects low light conditions and LCD lights up automatically when adapter is connected

Power
- 7.5 V AC/DC adapter for automatic remote control
- 4 “AA” batteries

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

NOTE: The AC/DC adapter connection is required for automatic backlight control function. When the main unit operates on battery power alone, the auto backlight control function is disabled.
- Connect the table stand to the back of main unit when placing on a table or other horizontal surface.
- When mounting the main unit on the wall or vertical surface, detach the table stand and use the mounting hardware provided.

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

IMPORTANT: All of the display functions will be locked, allowing setting your local altitude or sea level pressure parameters.

The locked display will show the pressure and weather forecast icon and abbreviation “hPa/mb” flashing, indoor temperature and humidity readings and default time “1:20pm”.

BUTTONS AND CONTROLS

A. UP ▲ – Mode Selection: selects the next available mode counter-clockwise
- When programming: increases parameters

B. DOWN ▼ – Mode Selection: selects the next available mode clockwise
- When programming: decreases parameters

C. SET – Rotates display for current mode
- Press and hold: to enter the programming mode
- Locks in: set parameters

D. CHANNEL – Manually selects the channel # for receiving temperature and humidity sensor data
- Enables the temperature and humidity channel auto-scan mode

E. MEMORY – Records: moon phase, temperature, humidity, rainfall and wind records.
- Then stores in memory
- Moon phase: determined by the day of month interval
- Sets and stores pressure & altitude units in Memory

F. HISTORY – Allows displaying the sea-level pressure history

G. ALARM/CHART – Displays alarm times and programmed alerts for temperature, rainfall and wind
- Press and hold, to enter the alarm/alert programming mode
- Press and hold in pressure and forecast window, to view different bar charts

H. LIGHT SENSOR – AUTO, ON, OFF
- Sets the light sensor to: automatic, on or off

I. SENSITIVITY – HIGH/LOW
- Adjusts the automatic light sensor sensitivity

J. LIGHT/SNOOZE – Illuminates the display backlight for 5 seconds
- Activates Snooze delay for alarms (programmable 1 to 15 minutes)

K. AC/DC ADAPTOR INPUT – Connects main unit to the power outlet through the AC to 7.5V DC adapter provided
NAVIGATING THROUGH THE MODES
The main unit has five (5) different modes (windows) displaying separate data: Weather Forecast, Clock & Alarm, Temperature and Humidity, Rain, and Wind. When a specific mode is selected the corresponding icon begins flashing. Press UP ▲ button to cycle through the modes clockwise or DOWN ▼ button for counter-clockwise.

**PRESSURE AND WEATHER FORECAST WINDOW**
Displays:
- Current pressure and history bar-chart
- Weather forecast
- Moon phase

**CLOCK AND ALARMS WINDOW**
Displays:
- US Atomic Time clock with time and calendar
- Single alarm, weekend alarm and ice warning alarm (pre-alarm)

**TEMPERATURE AND HUMIDITY WINDOW**
Temperature & Humidity are automatic features and no adjustments. IN or internal sensors reside within the main unit. Readings for CH1, CH2 or CH3 are provided by external sensor transmitters.
Displays:
- Temperature and humidity readings for indoor and selected external channel
- Comfort level indication (Predetermined level)
- Dew point temperature (Predetermined level)
- High and Low temperature alerts (Predetermined level)
- Remote Thermo-Hygrometer sensor battery status

**RAIN WINDOW**
Displays:
- Precipitation amount for the last hour, day, yesterday, last week and last month
- Rainfall alert (User adjustable level setting)
- Remote rain gauge battery status

**WIND WINDOW**
Displays:
- Wind Chill temperature
- Temperature at place of anemometer
- Wind direction
- Wind speed
- Wind gust speed
- Alert for wind speed and wind gust speed (User Adjustable setting)
- Remote anemometer battery status

CUSTOMIZING YOUR WEATHER STATION
It is required to program:
- The pressure parameters during Initial Setup (See Pressure and Weather Forecast Mode P.15)
- The time, the date and the weekday language (Clock and Alarm Mode: P.17)

Optional:
- The time alarms (Clock and Alarm Mode: P.17)
- The temperature alerts (Temperature and Humidity Mode P.19)
- Daily rainfall alerts (Rain Mode P.21)
- Wind alerts (Winds Mode: P.22)

**USING DIFFERENT WEATHER MODES**

**PRESSURE AND WEATHER FORECAST MODE**
It indicates the current barometric pressure, the sea level pressure, the weather forecast and the moon phase.
A number of historical statistics can also be viewed, including the sea-level pressure for the past 24 hours, moon phase for the past and following 39 days, as well as a pressure/temperature/humidity history bar-chart.
Pressure can be displayed in Hg, hPa/mBar or mmHg, and altitude can be displayed in meters or feet.
(Altitude can be used to set or adjust barometric levels.)

**SETTING PRESSURE PARAMETERS DURING INITIAL SETUP**

**ACCESSING PRESSURE AND WEATHER FORECAST MODE**

**VIEWING THE PRESSURE AND ALTITUDE INFORMATION**
To view a pressure or altitude information, press UP ▲ or DOWN ▼ until the pressure and weather forecast icon 🌞 starts flashing.

**SEAS LEVEL PRESSURE SETTING**
- Press SET button until the sea level pressure with “SEA LEVEL” is displayed.
- Press and hold SET until the pressure digits are flashing.
- Set the sea level pressure by pressing UP ▲ or DOWN ▼ buttons. Press and hold either button for the quick digits advance.
- Press SET to confirm selection
CHANGING THE SEA LEVEL PRESSURE AND ALTITUDE UNIT
- Press SET until the local pressure with the word “SEA LEVEL” is displayed.
- Press and hold MEMORY until the pressure unit is flashing.
- Set the sea level pressure units by pressing the UP or DOWN buttons to adjust the pressure value.
- Press MEMORY to confirm your selection.
- Press SET button until the local altitude value will be displayed.
- Press and hold MEMORY until the altitude unit is flashing.
- Set the altitude unit in meters or feet by pressing the UP or DOWN.
- Press MEMORY to confirm your selection.

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

VIEWING THE PRESSURE, TEMPERATURE AND HUMIDITY BAR CHARTS
The bar chart in Pressure and Weather forecast window can be configured to display a historical data for the sea level pressure and temperature or humidity for channel 1.
After selecting the Pressure and Weather Forecast Mode, press and hold ALARM/CHART button to toggle the bar chart between the sea level pressure with a word “PRESSURE” displayed at the right bottom corner of the chart, temperature with a thermometer icon and “CH1” and a humidity with “RH” icon and “CH1”.

Viewing the Moon Phase History and Weather Forecast
- After selecting the Pressure and Weather Forecast Mode, press MEM while “+ 0 days” is flashing.
- Press UP or DOWN selecting from today’s date a future (+) or past (-) days and the corresponding moon phase will be displayed. Press and hold either button for a quick advance.
- To exit, press MEMORY button.

SEVEN UNIQUE WEATHER FORECAST DISPLAYS

<table>
<thead>
<tr>
<th>Display</th>
<th>Weather Forecast</th>
</tr>
</thead>
<tbody>
<tr>
<td>☀️</td>
<td>Sunny</td>
</tr>
<tr>
<td>🌞</td>
<td>Partly Cloudy</td>
</tr>
<tr>
<td>🌬️</td>
<td>Cloudy</td>
</tr>
<tr>
<td>🌧️</td>
<td>Light Rain</td>
</tr>
<tr>
<td>☁️</td>
<td>Heavy Rain</td>
</tr>
<tr>
<td>🌧️</td>
<td>Unstable Weather</td>
</tr>
<tr>
<td>⛅️</td>
<td>Snow</td>
</tr>
</tbody>
</table>

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

UNDERSTANDING THE MOON PHASE DIAGRAM

CLOCK AND ALARM MODE
MANUAL SETTING
The main unit can be manually set to display the time, calendar or UTC time. There are three time alarms available on the main unit: Weekday alarm (W), Single alarm (S) and Ice Warning Alarm (Pre-Al).
- If Weekday alarm is activated, it will sound at the set time and the alarm icon will flash Mondays through Fridays.
- If Single day alarm is activated, it will sound at the set time and the alarm icon will flash only for this specific day and will not activate on subsequent days.
- The Ice Warning Alarm is activated at programmed time interval (from 15 to 90 minutes) before the weekday or single alarm, if channel 1 temperature falling to freezing and below.

NOTE: Ice Warning Alarm can be set only if one or both-Weekday or Single alarm are programmed. The snooze duration for listed alarms can also be programmed up to 15 minutes.

ACCESSING CLOCK AND ALARM MODE
Press UP or DOWN until the clock icon next to the time/date display will flash.
Setting the time, date and language
- In the Clock and Alarm Mode, press and hold SET button until the day of week language abbreviation “EN” will flash.
- Press the UP or DOWN selecting the day of the week in English, German, French, Italian, Spanish or Dutch.

- Press SET to confirm selection.
- Select the City Code for your area by pressing UP or DOWN. Refer to P:25 for a list of available codes.
- Press SET to confirm the selection and enter to the latitude and longitude programming mode.

SETTING USR LATITUDE & LONGITUDE
If you selected the USR as a city code, ou will be prompted to enter the latitude, longitude, Time Zone and select Daylight Savings Time on or off.
- Press UP or DOWN to adjust the latitude. Press and hold down either button for quick digits advance.
- Press SET to confirm the selection.
- Continue setting the longitude using the same steps.
- Set the Time Zone by pressing UP or DOWN to adjust the time in 30 min intervals. Press and hold down either button for quick digits advance.
- Press SET to confirm selection.
- Continue setting the year, month, day, calendar format (day/month or month/day), time format (12 or 24 hours), local hour and minutes, using the same steps.
After programming is complete the display will return to the default Clock and Alarm Mode.

DIFFERENT CLOCK AND CALENDAR DISPLAYS
In the Clock and Alarm Mode press SET selecting either:
- Hour and Minutes with the Day of the week
- Hour and Minutes for UTC (Coordinated Universal Time)
- Hour and Minutes with the City abbreviation
- Hour and Minutes with the Seconds
- Month with the day and a year. Or day with month and a year.

ENABLING OR DISABLING THE TIME ALARMS
- Press the ALARM/CHART to display the Weekday Alarm. If these alarms are not set, the abbreviation OFF will be displayed.
- To enable or disable any of these alarms, press UP or DOWN.

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

PROGRAMMING TIME ALARMS
- In the Clock and Alarm Mode, press the ALARM/CHART selecting the desired alarm.
- Press and hold ALARM/CHART button until the hour digit will flash.
- Set the alarm hour using the UP or DOWN.
- Press and hold either button for quick digit advance.
- Press ALARM/CHART to confirm selection.
- Set the alarm minutes using UP or DOWN.
- Press and hold either button for quick digit advance.
- Press ALARM/CHART to confirm selection.
- Set a Snooze interval (all three alarms share same snooze time duration) using UP or DOWN.
- Press and hold either button for quick digit advance.
- Press ALARM/CHART to confirm your selection.

After programming is completed, the display will return to the alarm selection screen.
NOTE: Pre-alarm (Ice Warning Alarm) can be set only if the weekday alarm or single alarm is enabled.

DISABLING OR ENABLING SNOOZE FUNCTION
To enable a snooze function press LIGHT/SNOOZE button. Snooze duration is programmable and can set: from 1 to 15 minutes.

NOTE: When the alarm sounds for 2 minutes the clock will automatically Snooze if no buttons are pressed. This will occur for three consecutive snooze cycles.

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

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

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

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

• Make sure the unit is positioned at 8 feet (2 meters) distance from any interference source such as a TV, computer monitor, microwave, etc.

• Within concrete wall rooms such as basements or office buildings, the received signal may be weakened. Always place the Projection Clock near the window for better reception.

Once the atomic time signal is received, the date and time will be set automatically, and the icon will appear.

After the clock is set manually, place the main unit by the window for better reception. The atomic clock receiver is programmed that it will continue to search for the atomic time signal daily for every hour between 1:00 am and 4:30 am.

Once the time signal has been successfully received, the time and date will be updated automatically.

To enable or disable the atomic time receiver:
• Press and hold UP if atomic time reception is activated, a triangular tower icon will start flashing next to the clock icon. If reception is disabled, the triangular tower icon will disappear.

TEMPERATURE AND HUMIDITY MODE
The weather station supports up to 3 remote thermo hygrometers corresponding to a separate channel of the temperature and relative humidity display. The temperature can be displayed in Celsius (°C) or Fahrenheit (°F).

The main unit carries the temperature and humidity sensor and uses this indoor data to calculate an indoors comfort level - Wet, Comfort or Dry.

A temperature alert function is available for each channel. It can be programmed to sound if the channel temperature exceeds or falls below the pre-set upper and lower limit.

NOTE: The temperature alerts have a 0.5 °C deviation to prevent them from sounding due to small temperature fluctuations that are close to the set alert value. This means that after the temperature reaches the alert temperature, it will have to fall below the alert temperature plus the deviation (0.5°C) to activate the alert.

RESETTING THE RAINFALL STATISTICS MEMORY
In the Rain Mode, press and hold MEMORY button to reset all rainfall statistics.

VIEWING RAIN STATISTICS
In the Rain Mode, press either SET or MEMORY button to recall a current rainfall for the last hour, 24 hours, past day, past week and the past month. The rainfall can be displayed in mm or inches.

TIP: For the rain rate estimate the Last Hour rainfall value is understood as “inch/hr” or “mm/hr”.

VIEWING THE MAX/MIN CHANNEL TEMPERATURE AND HUMIDITY
In Temperature and Humidity Mode press the ALARM/CHART button until the channel temperature exceeds or falls below the pre-programmed limit.

SETTING UNITS FOR THE RAIN DISPLAY IN INCHES OR MM
In the Rain Mode, press and hold SET button to toggle rainfall data units between mm and inches.

ENABLE OR DISABLING THE DAILY RAINFALL ALERT
• In the Rain Mode press the ALARM/CHART to display either the current rainfall statistics or the daily rainfall alert with “ALARM HI” displayed.
• If the alert is disabled, the “OFF” will be displayed; otherwise the rainfall alert value will be shown.
• When the rainfall alert is displayed, press the UP or DOWN to enable or disable it.

ACCESSING WIND MODE
In the Wind Mode, press and hold UP or DOWN until the icon on the display starts flashing.

VIEWING WIND STATISTICS
In the Wind Mode, press either SET or MEMORY button to recall wind measurements for the last minute, past minute, past 5 minutes, past hour, past 5 hours, past day, past week, past month, and past year.

TIP: For the wind speed estimate the Last Minute value is understood as “mph”.

SETTING UNITS FOR THE WIND SPEED IN KMH, MPH, M/S OR KNOTS
In the Wind Mode, press and hold SET to set the wind speed units in km/h, mph, m/s or knots.

TEMPERATURE AND HUMIDITY MODE
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The main unit carries the temperature and humidity sensor and uses this indoor data to calculate an indoors comfort level - Wet, Comfort or Dry.

A temperature alert function is available for each channel. It can be programmed to sound if the channel temperature exceeds or falls below the pre-set upper and lower limit.

In Temperature and Humidity Mode press the ALARM/CHART to display either the current rainfall statistics or the daily rainfall alert with “ALARM HI” displayed.
• If the alert is disabled, the “OFF” will be displayed; otherwise the rainfall alert value will be shown.
• When the rainfall alert is displayed, press the UP or DOWN to enable or disable it.

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

RESETTING THE RAINFALL STATISTICS MEMORY
In the Rain Mode, press and hold MEMORY button to reset all rainfall statistics.

VIEWING RAIN STATISTICS
In the Rain Mode, press either SET or MEMORY button to recall a current rainfall for the last hour, 24 hours, past day, past week and the past month. The rainfall can be displayed in mm or inches.

TIP: For the rain rate estimate the Last Hour rainfall value is understood as “inch/hr” or “mm/hr”.

SETTING UNITS FOR THE RAIN DISPLAY IN INCHES OR MM
In the Rain Mode, press and hold SET button to toggle rainfall data units between mm and inches.

ENABLE OR DISABLING THE DAILY RAINFALL ALERT
• In the Rain Mode press the ALARM/CHART to display either the current rainfall statistics or the daily rainfall alert with “ALARM HI” displayed.
• If the alert is disabled, the “OFF” will be displayed; otherwise the rainfall alert value will be shown.
• When the rainfall alert is displayed, press the UP or DOWN to enable or disable it.

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

SETTING UNITS FOR THE WIND SPEED IN KMH, MPH, M/S OR KNOTS
In the Wind Mode, press and hold SET to set the wind speed units in km/h, mph, m/s or knots.

REMOTE SENSOR STATUS
The wave icon above the current channel display shows the connection status of the corresponding remote sensor:

<table>
<thead>
<tr>
<th>Icon</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>🌠</td>
<td>Searching for the signals from the remote sensor</td>
</tr>
<tr>
<td>🌠</td>
<td>Corresponding remote sensor signal received successfully</td>
</tr>
<tr>
<td>🌠</td>
<td>No signals received for over 15 minutes</td>
</tr>
</tbody>
</table>
VIEWING WIND STATISTICS
In the Wind Mode, press the MEMORY button to recall a current wind speed, a daily maximum wind speed with “DAILY MAX” displayed, a gust speed with a “GUST” displayed and a daily maximum gust speed with a “GUST DAILY MAX” displayed.

RESETTING THE WIND STATISTICS MEMORY
In the Wind Mode, press and hold MEMORY to reset all wind statistics.

ENABLING OR DISABLELING THE WIND ALERTS
In the Wind Mode press the ALARM/CHART to recall a current wind speed, a wind speed alert with the “ALARM HI” displayed or gust alert with the “GUST ALARM HI” displayed.

If the alert is disabled, “OFF” will be displayed; otherwise the alert value is shown.

When a wind alert is displayed, press the UP ▲ or DOWN ▼ to activate or deactivate it.

WIND ALERTS PROGRAMMING
- In the Wind Mode, press ALARM/CHART to select the desired alarm.
- Press and hold ALARM/CHART button until alarm and corresponding icon will flash.
- Set the alert using the UP ▲ or DOWN ▼. Press and hold either button for fast digits advance.
- Press ALARM/CHART to confirm your selection and return to the wind alert selection screen.

DISABLING THE WIND ALERT
To disable wind alert press ALARM/CHART.

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

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

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

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

Never use any abrasive cleaning agents and solvents. Do not immerse any units with electronic parts in water. Do not clean the units with abrasive or corrosive materials. They may scratch the plastic parts and corrode the electronic circuits.

Do not immerse the units in water.

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

Cleaning the swinging mechanism with a damp cloth.

Anemometer (Wind Sensor): 15 minutes
Thermo-Hygrometer: 15 minutes
Rain Gauge: 30 minutes

RESETTING THE WIND STATISTICS MEMORY
In the Wind Mode, press and hold MEMORY to reset all wind statistics.

ENABLING OR DISABLELING THE WIND ALERTS
In the Wind Mode press the ALARM/CHART to recall a current wind speed, a wind speed alert with the “ALARM HI” displayed or gust alert with the “GUST ALARM HI” displayed.

If the alert is disabled, “OFF” will be displayed; otherwise the alert value is shown.

When a wind alert is displayed, press the UP ▲ or DOWN ▼ to activate or deactivate it.

WIND ALERTS PROGRAMMING
- In the Wind Mode, press ALARM/CHART to select the desired alarm.
- Press and hold ALARM/CHART button until alarm and corresponding icon will flash.
- Set the alert using the UP ▲ or DOWN ▼. Press and hold either button for fast digits advance.
- Press ALARM/CHART to confirm your selection and return to the wind alert selection screen.

DISABLING THE WIND ALERT
To disable wind alert press ALARM/CHART.

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

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

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

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

Never use any abrasive cleaning agents and solvents. Do not immerse any units with electronic parts in water. Do not clean the units with abrasive or corrosive materials. They may scratch the plastic parts and corrode the electronic circuits.

Do not immerse the units in water.

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

Cleaning the swinging mechanism with a damp cloth.

Anemometer (Wind Sensor): 15 minutes
Thermo-Hygrometer: 15 minutes
Rain Gauge: 30 minutes

APPENDIX-CITY CODES
City codes are used for presetting setting Latitude and Longitude. These codes affect time zones and DST settings.

US AND CANADIAN CITIES

<table>
<thead>
<tr>
<th>City</th>
<th>Code</th>
<th>Zone Offset</th>
<th>DST</th>
<th>City</th>
<th>Code</th>
<th>Zone Offset</th>
<th>DST</th>
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</thead>
<tbody>
<tr>
<td>Atlanta, Ga.</td>
<td>ATL</td>
<td>-5</td>
<td>SU</td>
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<td>MEM</td>
<td>-6</td>
<td>SU</td>
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<td>-6</td>
<td>SU</td>
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<td>MIA</td>
<td>-5</td>
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<td>Baltimore, Md.</td>
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<td>SU</td>
<td>Milwaukee, Wis.</td>
<td>MKE</td>
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<td>SU</td>
<td>Minneapolis, Minn.</td>
<td>MSP</td>
<td>-6</td>
<td>SU</td>
</tr>
<tr>
<td>Boston, Mass.</td>
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<td>SU</td>
<td>Montreal, Que., Can.</td>
<td>YMX</td>
<td>-5</td>
<td>SU</td>
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<tr>
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<td>-7</td>
<td>SU</td>
<td>Nashville, Tenn.</td>
<td>BNA</td>
<td>-6</td>
<td>SU</td>
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<td>Chicago, IL</td>
<td>CGX</td>
<td>-6</td>
<td>SU</td>
<td>New Orleans, La.</td>
<td>MSY</td>
<td>-6</td>
<td>SU</td>
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<td>SU</td>
<td>New York, N.Y.</td>
<td>NYC</td>
<td>-5</td>
<td>SU</td>
</tr>
<tr>
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<td>SU</td>
<td>Oklahoma City, Okla.</td>
<td>OKC</td>
<td>-6</td>
<td>SU</td>
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<td>SU</td>
<td>Omaha, Neb.</td>
<td>OMA</td>
<td>-6</td>
<td>SU</td>
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<td>SU</td>
<td>Ottawa, Ont., Can.</td>
<td>YOW</td>
<td>-5</td>
<td>SU</td>
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<td>-7</td>
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<td>-5</td>
<td>SU</td>
</tr>
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<td>SU</td>
<td>Portland, Ore.</td>
<td>PDX</td>
<td>-8</td>
<td>SU</td>
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<tr>
<td>Indianapolis, Ind.</td>
<td>IND</td>
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<td>NO</td>
<td>San Antonio, Tex.</td>
<td>SAT</td>
<td>-6</td>
<td>SU</td>
</tr>
<tr>
<td>Jacksonville, Fla.</td>
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<td>-5</td>
<td>SU</td>
<td>San Diego, Calif.</td>
<td>SAN</td>
<td>-8</td>
<td>SU</td>
</tr>
<tr>
<td>Las Vegas, Nev.</td>
<td>LAS</td>
<td>-8</td>
<td>SU</td>
<td>San Francisco, Calif.</td>
<td>SFO</td>
<td>-8</td>
<td>SU</td>
</tr>
<tr>
<td>Los Angeles, Calif.</td>
<td>LAX</td>
<td>-8</td>
<td>SU</td>
<td>San Jose, Calif.</td>
<td>SJC</td>
<td>-8</td>
<td>SU</td>
</tr>
<tr>
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<td>-8</td>
<td>SU</td>
<td>Vancouver, B.C., Can.</td>
<td>YVR</td>
<td>-8</td>
<td>SU</td>
</tr>
<tr>
<td>St. Louis, Mo.</td>
<td>STL</td>
<td>-6</td>
<td>SU</td>
<td>Washington, D.C.</td>
<td>DCA</td>
<td>-5</td>
<td>SU</td>
</tr>
<tr>
<td>Tampa, Fla.</td>
<td>TPA</td>
<td>-5</td>
<td>SU</td>
<td>Vancouver, Canada</td>
<td>VAC</td>
<td>-8</td>
<td>SU</td>
</tr>
<tr>
<td>Toronto, Ont., Can.</td>
<td>YTZ</td>
<td>-5</td>
<td>SU</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Barometric Pressure

Temperature (Indoor)

Humidity (Indoor)

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

Wind Speed

Range: 0 to 199.9mph
Resolution: 0.1mph (0.16 Km/h)
Accuracy: (2mph + 5%)
Starting Threshold: 3mph (4.8 Km/h)
Transmitting Interval: 33 seconds

Wind/Gust Speed Display Update Interval: 33 seconds

Wind/Gust Sampling Interval: 11 seconds

Power

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

Weight (without batteries)

Main unit: 8.15oz (231g)
Remote Thermo-Hygrometer: 2.29oz (65g)
Remote Anemometer: 11.12oz (315g)
Remote Rain Gauge: 10.24oz (290g)

SPECIFICATIONS

Radio Frequency: 433 MHz
RF Reception range: 100-328 feet (30 -100 m)

Barometric Pressure

Measuring Range: 14.75 inHg to 32.44 inHg (500 Hpa to 1100 Hpa); (374.5 mmHg to 823.8 mmHg)
Resolution: 0.003 inHg (0.1 Hpa)
Accuracy: 0.015 inHg (0.08 mmHg)
Sampling interval: 20 minutes
Altitude Compensation Range: -457 ft to 16404 ft (-200m to +5000 m)

Temperature (Indoor)

Operating Range: 14.2° to 140°F (-9.9° to 60°C)
Resolution: 0.2°F (0.1°C)
Accuracy: 2°F (1°C)
Sampling Interval: 10 seconds
Transmitting Interval: around 47 seconds
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- Infrared Pyrometers

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- Load Cells & Pressure Gages
- Displacement Transducers
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- Benchtop/Laboratory Meters
- Controllers, Calibrators, Simulators & Pumps
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- Communications-Based Acquisition Systems
- Plug-in Cards for Apple, IBM & Compatibles
- Data Logging Systems
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- Cartridge & Strip Heaters
- Immersion & Band Heaters
- Flexible Heaters
- Laboratory Heaters

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- Metering & Control Instrumentation
- Refractometers
- Pumps & Tubing
- Air, Soil & Water Monitors
- Industrial Water & Wastewater Treatment
- pH, Conductivity & Dissolved Oxygen Instruments
WARRANTY/DISCLAIMER

OMEGA ENGINEERING, INC. warrants this unit to be free of defects in materials and workmanship for a period of 13 months from date of purchase. OMEGA's WARRANTY adds an additional one (1) month grace period to the normal one (1) year product warranty to cover handling and shipping time. This ensures that OMEGA's customers receive maximum coverage on each product.

If the unit malfunctions, it must be returned to the factory for evaluation. OMEGA's Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by OMEGA, if the unit is found to be defective, it will be repaired or replaced at no charge. OMEGA's WARRANTY does not apply to defects resulting from any action of the purchaser, including but not limited to mishandling, improper interfacing, operation outside of design limits, improper repair, or unauthorized modification. This WARRANTY is VOID if the unit shows evidence of having been tampered with or shows evidence of having been damaged as a result of excessive corrosion; or current, heat, moisture or vibration; improper specification; misapplication; misuse or other operating conditions outside of OMEGA's control. Components in which wear is not warranted, include but are not limited to contact points, fuses, and triacs.

OMEGA is pleased to offer suggestions on the use of its various products. However, OMEGA neither assumes responsibility for any omissions or errors nor assumes liability for any damages that result from the use of its products in accordance with information provided by OMEGA, either verbal or written. OMEGA warrants only that the parts manufactured by the company will be as specified and free of defects. OMEGA MAKES NO OTHER WARRANTIES OR REPRESENTATIONS OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED, EXCEPT THAT OF TITLE, AND ALL IMPLIED WARRANTIES INCLUDING ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. LIMITATION OF LIABILITY: The remedies of purchaser set forth herein are exclusive, and the total liability of OMEGA with respect to this order, whether based on contract, warranty, negligence, indemnification, strict liability or otherwise, shall not exceed the purchase price of the component upon which liability is based. In no event shall OMEGA be liable for consequential, incidental or special damages.

CONDITIONS: Equipment sold by OMEGA is not intended to be used, nor shall it be used: (1) as a “Basic Component” under 10 CFR 21 (NRC), used in or with any nuclear installation or activity; or (2) in medical applications or used on humans. Should any Product(s) be used in or with any nuclear installation or activity, medical application, used on humans, or misused in any way, OMEGA assumes no responsibility as set forth in our basic WARRANTY/DISCLAIMER language, and, additionally, purchaser will indemnify OMEGA and hold OMEGA harmless from any liability or damage whatsoever arising out of the use of the Product(s) in such a manner.

RETURN REQUESTS/INQUIRIES

Direct all warranty and repair requests/inquiries to the OMEGA Customer Service Department. BEFORE RETURNING ANY PRODUCT(S) TO OMEGA, PURCHASER MUST OBTAIN AN AUTHORIZED RETURN (AR) NUMBER FROM OMEGA'S CUSTOMER SERVICE DEPARTMENT (IN ORDER TO AVOID PROCESSING DELAYS). The assigned AR number should then be marked on the outside of the return package and on any correspondence.

The purchaser is responsible for shipping charges, freight, insurance and proper packaging to prevent breakage in transit.

FOR WARRANTY RETURNS, please have the following information available BEFORE contacting OMEGA:
1. Purchase Order number under which the product was PURCHASED,
2. Model and serial number of the product under warranty, and
3. Repair instructions and/or specific problems relative to the product.

FOR NON-WARRANTY REPAIRS, consult OMEGA for current repair charges. Have the following information available BEFORE contacting OMEGA:
1. Purchase Order number to cover the COST of the repair,
2. Model and serial number of the product, and
3. Repair instructions and/or specific problems relative to the product.

OMEGA’s policy is to make running changes, not model changes, whenever an improvement is possible. This affords our customers the latest in technology and engineering.

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