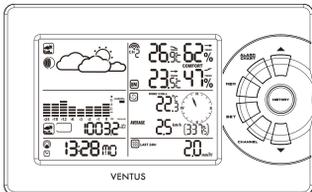


# VENTUS NSH01



(W827)

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KSP0-0037-12(XEE)  
VENTUS NSH01 MANUAL 1 (Eng)  
SIZE: W148 X H210(mm)  
BY Lai H Z 22/5/12

### Instruction Manual

#### Introduction

The weather station consists of a main console unit, as well as an assortment of remote sensors which collect and transmit a wide range of weather data, including outdoor temperature, humidity, wind speed and direction, rain amount and rain rate.

#### Main Console Unit

The main console unit features a radio-controlled precision clock with alarm and weather forecast. It measures indoor temperature and humidity, and displays weather data collected by the remote weather sensors. It also provides indication of the indoor/outdoor temperature, pressure and humidity trends, and moon phase.

#### Remote Weather Sensors

The remote sensors include a thermo-hygrometer, anemometer (wind sensor) and rain sensor. All data collected by the sensors is transmitted to the main console unit by wireless RF. The weather station supports a maximum of three thermo-hygro-meters.

#### Features

**Weather Forecast**  
- Sunny, Partly Cloudy, Cloudy, Slight Rain, Heavy Rain, Snow and Unstable Weather conditions

**Pressure**  
- Current or historical pressure (mBar/hPa, mmHg or inHg)  
- Altitude or sea level pressure adjustment for atmospheric pressure compensation  
- Pressure trend indication  
- Seasonal pressure history for the last 24 days  
- Sea-level pressure history bar chart

**Moon phase**  
- 12 steps of moon symbols  
- Moon phase for year 2000 to 2099  
- Moon phase history for the last or future 30 days

**Radio Controlled Clock**  
- Time and date synchronized by radio signal DCF-77 to atomic clock precision (time and date also manually adjustable)

**Clock and Calendar (12hr/24 hr)** (month/day or day/month)  
- Different combinations of clock and calendar displays  
- 6 languages for day of week (English/German/French/Italian/Spanish/Dutch)

**Alarms**  
- Single alarm: activated once at specified time  
- Weekday alarm: activated everyday from Monday to Friday at specified time  
- Pre-alarm: activated ahead of single or weekday alarm / channel / temperature falling to +2°C or below. (Fixed 30 minutes)  
- Programmable snooze function (1-15 minutes)

**Remote temperature and relative humidity, with trend indication**  
- Indoor and outdoor temperature and relative humidity display (°C or °F)  
- Temperature and relative humidity trend indication  
- Dew point display  
- Max/Min memory for temperature and relative humidity

**Comfort level indicator**  
- Analyzes current environmental conditions (Comfort, Wet and Dry)

**Rainfall measurement**  
- Records rainfall amount for the last hour, last 24 hours, last day, last week and last month (inch or mm).  
- Daily rainfall alert if rainfall for the current day exceed pre-specified amount.

**Wind**  
- Temperature at place of anemometer  
- Temperature adjusted to wind chill factor (°C or °F)  
- Wind direction compass display. Wind direction angles available as compass points or bearings.  
- Average wind speed and gust speed (mph, m/s, knots, and km/h)  
- Daily Maximum wind speed and gust speed memory  
- Wind speed alert for average wind speed and wind gust speed.

**Other Features**  
- Removable table stand for mounting display on a table or wall

### Understanding the Weather Forecast Display

- There are total
- Sunny
  - Partly Cloudy
  - Cloudy
  - Light Rain
  - Heavy Rain
  - Unstable weather
  - Light Snow
  - Heavy Snow

**NOTE:**  
1. The accuracy of a general pressure-based weather forecast is about 70%.  
2. The weather forecasts, if may not necessarily reflect the current situation.  
3. The "Sunny" icon, as applies to night time, implies clear weather.

### Understanding the Moon Phase Diagram



**Clock and Alarm Mode**  
The main console unit can be configured to display the time, calendar or UTC time. There are three time alarms available on the console unit.  
**Single alarm:** activated once at specified time  
**Weekday alarm:** activated everyday from Monday to Friday at specified time  
**Pre-alarm:** activated at specified time interval (Fixed 30 min) ahead of weekday alarm, if channel 1 temperature falling to +2°C or below.

### Accessing Clock and Alarm Mode

From the main console unit: Press the button **A** or **V** until the Time Icon starts flashing.  
**Setting up the Time, Date and Language**  
1. In Clock and Alarm Mode, press and hold **SET** to enter clock and calendar setup.  
2. The day of week should start flashing in the display.  
Set Language:  
Press the button **A** or **V** to select language for day of week: English, German, French, Italian, Spanish or Dutch.  
Press **SET** to confirm your selection.  
3. Repeat the above instructions to set year, month, day, calendar display format (day/month or month/day), time display format (12/24 hr), local hour and local minutes.  
Upon completion the display will return to normal Clock and Alarm Mode.

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

### Rotating between Different Clock/Calendar Displays

In Clock and Alarm Mode, each press of **SET** rotates clock display between:  
- Hour: Minute: Weekday  
- Minute: Second  
- Month: Day: Year (or Day: Month: Year depending on settings)

### Activating/Deactivating the Time Alarms

1. In Clock and Alarm Mode, each press of **ALARM/CHART** rotates clock display between:  
- Weekday Alarm Time (displays OFF if weekday alarm deactivated)  
- Single Alarm Time (displays OFF if single alarm deactivated)  
- Pre-Alarm Time (displays OFF if pre-alarm deactivated)
2. When the above alarms are displayed, pressing the button **A** or **V** will activate/deactivate the corresponding alarm.

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

**Setting up the Time Alarms**  
1. In Clock and Alarm Mode, press **ALARM/CHART** to select alarm which you wish to configure.  
2. Press and hold **ALARM/CHART** until hour starts flashing in the display.  
3. Set Alarm Hour.  
Press the button **A** or **V** to adjust value. Press and hold either button for fast advance.  
Press **ALARM/CHART** to confirm your selection.  
4. Set Alarm Minutes.  
Press the button **A** or **V** to adjust value. Press and hold either button for fast advance.  
Press **ALARM/CHART** to confirm your selection.  
5. Set Duration of Snooze Function (all three alarms share same snooze time duration):  
Press the button **A** or **V** to adjust value. Press and hold either button for fast advance.  
Press **ALARM/CHART** to confirm your selection.  
6. Upon completion the display will be returned to the alarm selection screen.

**Note:** Pre-alarm cannot be activated if weekday alarm or single alarm is not enabled.

**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 be activated again the next day if it falls within Monday to Friday.

### Activating/Deactivating Radio Clock Reception

The main console unit synchronizes the time and date with radio clock broadcasts to maintain atomic clock precision.

**To turn this function on/off:**  
Press and hold the button **A**.  
If RC reception is activated, the icon will start flashing beside the clock icon.  
**Note:** The radio controller signal for the temperature and relative humidity display. The temperature may be shown in degrees Celsius (°C) or degrees Fahrenheit (°F). The trend (rising, steady or falling) of all values is also indicated on the display.  
The main console unit uses the indoor temperature and humidity data to compute a comfort level rating of 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-configured upper and lower limits.

**Temperature and Humidity Mode**  
The weather station supports up to 3 remote thermo-hygrometer sensors, each sensor corresponding to a separate channel for the temperature and relative humidity display. The temperature may be shown in degrees Celsius (°C) or degrees Fahrenheit (°F). The trend (rising, steady or falling) of all values is also indicated on the display.  
The main console unit uses the indoor temperature and humidity data to compute a comfort level rating of 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-configured upper and lower limits.

**Note:** The temperature alerts have a 0.5 °C hysteresis to prevent the alerts from sounding constantly due to small fluctuations near the alert value. This means that after the temperature reaches the alert value, it will have to fall below the alert value plus hysteresis to deactivate the alert.

#### Installing your weather station

##### Setting up the Remote Weather Sensors

Before starting up the main console unit, setup all the remote sensors first.

When placing the sensors, make sure that they are within receiving range of the console unit. Ideally they should be within the line of sight of the console unit. Transmission range may be affected by trees, metal structures and electronic appliances. Test reception before permanently mounting your weather station.

Also make sure that the sensors are easily accessible for cleaning and maintenance. The remote sensors should be cleaned on a weekly basis, since dirt and debris will affect sensor accuracy.

##### Setting up the Thermo-Hygro Sensor(s)

1. Open the latch at the base of the thermo-hygro sensor.
2. Set the channel with a slide switch.
3. Insert 2 x UM-3 or "AA" size 1.5V batteries.
4. Use a pin to press the "RESET" key which is in the battery compartment of thermo-hygrometer sensors.
5. Replace the latch and mount unit at desired location.

##### Placement tips:

- The thermo-hygrometer sensor should be in an area with free air circulation and sheltered from direct sunlight and other extreme weather conditions. Place the unit in a shaded area, such as under a roof.
- Use the wall mount and fittings provided if mounting the unit on a vertical surface.
- Avoid placing the sensor near sources of heat such as chimneys.
- Avoid any areas which collect and radiate heat in the sun, such as metal, brick or concrete structures, paving, patios and decks.
- Ideally, place the sensor above natural surfaces such as a grassy lawn.
- The international standard height for measurements of air temperature is at 1.25m (4 ft) above ground level.

##### Setting up the Rain Sensor

1. Unlock the funnel-shaped top of the rain sensor by turning both knobs on the sides of the rain sensor in an anti-clockwise direction.
2. Lift the top of the base and insert 2 x UM-3 or "AA" size 1.5V batteries into the battery holder.
3. Replace the lid and secure into place by turning the knobs clockwise.
4. Place the rain sensor in a location such that precipitation can fall directly into the sensor, ideally 2' to 3' above the ground.
5. It may be secured into place by using the 4 screws provided.

##### Placement tips:

- The rain sensor should be placed in an open area away from walls, fences, trees and other coverings which may either reduce the amount of rainfall into the sensor, deflect the entry of wind-blown rain, or create extra precipitation runoff. Trees and rooftops may also be the sources of pollen and debris.
- To avoid rain shadow effects, place the sensor at a horizontal distance corresponding to two to four times the height of any nearby obstructions.
- It is important that the rain access can flow freely away from the sensor. Make sure that water does not collect at the base of the unit.
- The rainfall measurement mechanism utilizes a magnet, hence do not place any magnetic objects around the proximity of the sensor.

#### Setting up the Anemometer (wind sensor)

1. Assemble the wind cups to the anemometer arm.
2. Attach the assembled anemometer to the base.
3. Insert 2 x UM-3 or "AA" size 1.5V batteries into the battery holder in the base.
4. Mount the anemometer onto a vertical surface, using the fittings provided.
5. To allow the main console unit to find the direction which the wind vane is oriented, the following procedures are required:
  - i. Insert the batteries.
  - ii. Point the wind vane towards the north. Use a compass or map if necessary.
  - iii. Use a pin to press the "SET" key which is in the battery compartment of the wind sensor. The "SET" will toggle the direction between two mode.
6. Set the current direction as NORTH.

**Note:** Above procedure must be repeated for changing battery.

#### Placement tips:

- Check that wind can travel freely around the anemometer and is not distorted by nearby buildings, trees or other structures.
- For better results, place the anemometer at least 3m above local structures and obstacles. The ground creates a frictional effect to wind flow and will attenuate readings.
- For maximum exposure of the anemometer to the commonest wind directions in your area.
- The official mounting location for anemometers is 10m (33 ft) above ground level in a clear unobstructed location.

#### Setting up the Main Console Unit

1. Open the top of the back of the main console unit.
2. Insert 6 x UM-3 or "AA" size 1.5V batteries according to the polarities shown.
3. Place the console unit on a table or horizontal surface, mounting the table stand and adjust to the optimal viewing angle.
4. If mounting the console unit on a wall or vertical surface, remove the table stand out of the unit.

#### Placement tips:

Make sure that the console unit is within receiving range of all remote sensors. Ideally sensors should be within the line of sight of the console unit. Transmission range may be affected by trees, metal structures and electronic appliances. Test reception before permanently mounting your weather station.

The console unit measures indoor temperature, humidity, pressure and receives signals from all remote sensors and radio-clock broadcasts. Avoid placing the console unit in the following areas:  
- Direct sunlight and surfaces which radiate heat and emit heat.  
- Heat trapping and ventilation devices (such as ceiling ducts or air conditioners).  
- Areas with interference from wireless devices (such as cordless phones, radio headsets, baby listening devices) and electronic appliances.

#### Setting up the Main Console Unit

Press the console unit on standby powered, the display will start showing some data and weather parameters. Wait for a few minutes for the console to finish self-calibration and for the sensor readings to show up.  
If "—" is still displayed for the sensor readings(s), check the wireless transmission path and the batteries for the corresponding sensor.

### Disabling when Daily Rainfall Alert is Activated

1. Disable rainfall alert by pressing the button **A** or **V** until the Rain Icon starts flashing.  
Press **ALARM/CHART** to disable the alert.

**Wind Mode**  
The wind speed display is shown by an azimuthal compass display. Its angle can be displayed as compass points (i.e. NW) or in bearings from the north (i.e. 22.5°).  
The upper left of the wind display can be set to indicate the temperature at the anemometer or the temperature adjusted with a wind chill factor.  
The lower left of the wind display indicates the average wind speed for the last 10 minutes, as well as gust speed and gust sustained for the current day.

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

**Note:** The wind speed alert has a 5 mph hysteresis and the wind gust speed alert has a 7 mph hysteresis. The hysteresis is to prevent the alerts from sounding constantly due to small fluctuations near the alert value. This means that after the wind speed reaches the alert value, it will have to fall below the alert value plus the hysteresis to deactivate the alert.

**IMPORTANT:** The wind chill is calculated by using the CH1 Temperature sensor and the wind sensor. Wind Chill value will be shown when the Channel 1 Temperature sensor and the wind sensor are well installed.

### Accessing Wind Mode

From the main console unit: Press the button **A** or **V** until the Wind Icon on the display starts flashing.

**Configuring Wind Display**  
In Wind Mode, each press of **SET** rotates display between:  
- Temperature with wind chill, wind direction in bearings  
- Temperature with wind chill, wind direction in compass points  
- Temperature at anemometer, wind direction in compass points  
- Temperature at anemometer, wind direction in bearings

**Setting Units for Wind Speed Display (km/h, mph, m/s or knots)**  
In Wind Mode, press and hold **SET** to convert wind speed units between km/h, mph, m/s or knots.

**Viewing Wind Statistics**  
In Wind Mode, each press of **MEMORY** rotates wind speed display between:  
- Current Average wind speed  
- Daily maximum wind speed ("DAILY MAX" is displayed)  
- Gust speed ("GUST" is displayed)  
- Daily maximum gust speed ("GUST DAILY MAX" is displayed)

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

### Activating/Deactivating Wind Alerts

1. In Wind Mode, each press of **ALARM/CHART** rotates wind speed display between:  
- Current average wind speed  
- Wind speed alert ("ALARM HI" displayed)  
- Gust alert ("GUST ALARM HI" displayed)
2. When a wind alert is displayed, pressing the button **A** or **V** will activate/deactivate it.

**Setting up the Wind Alerts**  
1. In Wind Mode, press **ALARM/CHART** to select alarm which you wish to configure.  
2. Press and hold **ALARM/CHART** until alert and corresponding icon starts flashing in the display.  
3. Set value for Alert.  
Press the button **A** or **V** to adjust value. Press and hold either button for fast advance.  
Press **ALARM/CHART** to confirm your selection.  
4. Upon completion the display will be returned to the wind alert selection screen.

**Disabling when Wind Alert is Activated**  
In Wind Mode, each press of **ALARM/CHART** rotates display between the current rainfall statistics and the daily rainfall alert ("ALARM HI" will be displayed).  
If the alert is deactivated, "OFF" will be shown, otherwise the alert value is shown.  
2. When the rainfall alert is displayed, pressing the button **A** or **V** will activate/deactivate it.

**Setting up the Daily Rainfall Alert**  
1. In Rain Mode, press **ALARM/CHART** to display rainfall alert.  
2. Press and hold **ALARM/CHART** until rainfall alert and "ALARM HI" starts flashing in the display.  
3. Set value for Rainfall Alert.  
Press the button **A** or **V** to adjust value. Press and hold either button for fast advance.  
Press **ALARM/CHART** to confirm your selection.  
4. Upon completion the display will be returned to the rainfall alert display.

**Disabling when Rainfall Alert is Activated**  
In Rain Mode, each press of **ALARM/CHART** rotates display between the current rainfall statistics and the daily rainfall alert ("ALARM HI" will be displayed).  
If the alert is deactivated, "OFF" will be shown, otherwise the alert value is shown.

**Setting Units for Rain Display (inch or mm)**  
In Rain Mode, press and hold **SET** to convert units between mm and inches.

**Activating/Deactivating the Daily Rainfall Alert**  
1. In Rain Mode, each press of **ALARM/CHART** rotates display between the current rainfall statistics and the daily rainfall alert ("ALARM HI" will be displayed).  
If the alert is deactivated, "OFF" will be shown, otherwise the alert value is shown.  
2. When the rainfall alert is displayed, pressing the button **A** or **V** will activate/deactivate it.

**Setting up the Daily Rainfall Alert**  
1. In Rain Mode, press **ALARM/CHART** to display rainfall alert.  
2. Press and hold **ALARM/CHART** until rainfall alert and "ALARM HI" starts flashing in the display.  
3. Set value for Rainfall Alert.  
Press the button **A** or **V** to adjust value. Press and hold either button for fast advance.  
Press **ALARM/CHART** to confirm your selection.  
4. Upon completion the display will be returned to the rainfall alert display.

**Disabling when Rainfall Alert is Activated**  
In Rain Mode, each press of **ALARM/CHART** rotates display between the current rainfall statistics and the daily rainfall alert ("ALARM HI" will be displayed).  
If the alert is deactivated, "OFF" will be shown, otherwise the alert value is shown.

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In Rain Mode, press and hold **SET** to convert units between mm and inches.

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1. In Rain Mode, each press of **ALARM/CHART** rotates display between the current rainfall statistics and the daily rainfall alert ("ALARM HI" will be displayed).  
If the alert is deactivated, "OFF" will be shown, otherwise the alert value is shown.  
2. When the rainfall alert is displayed, pressing the button **A** or **V** will activate/deactivate it.

#### Buttons and its control specification

The following controls are available on both the main console unit:

UP	Switches to next mode in anti-clockwise direction - Increment for setting parameters
DOWN	- Switches to next mode in clockwise direction - Decrement for setting parameters
SET	- Rotates display for current mode - Press and hold to enter setup or change units - Confirmation for setting parameters
MEM	- Shows records for moon phase, temperature, humidity, rain and wind.
HISTORY	- Shows history for sea-level pressure
ALARM/CHART	- Shows time alarms and alerts for temperature, rain and wind. - Press and hold to enter alarm/alert setup - Press and hold in Pressure and Weather Forecast Mode to view different bar-charts
CHANNEL	- Changes temperature and humidity display to selected channel - Press and hold to enable cycling display of channel temperature and humidity

#### Navigating between Different Modes

There are four modes available on the main console unit, and each one displays a different category of data. When display is in a certain mode, its corresponding icon will start flashing.

To navigate between the different modes from the main console unit, press **UP** to cycle through the modes in a clockwise direction or **DOWN** to cycle through the modes in an anti-clockwise direction.

#### Moon Phase and Weather, Pressure

- Current pressure, trend, and history bar-chart  
- Weather forecast

Press the button **UP** when the wireless link is lost with the remote sensor for the following pressure:

- Thermo-Hygro Sensor - 15 minutes
- Anemometer (Wind Sensor) - 15 minutes
- Rain Sensor - 10 minutes

Check or replace the batteries for the corresponding sensor. Then press and hold the button **V** to enforce a search for all remote signals.

If the above does not solve the problem, check the wireless transmission path from the corresponding sensor to the main console unit and change their locations if necessary. Although wireless signals can pass through solid objects and walls, the sensor should ideally be within the line of sight of the console unit.

The following may be the cause of reception problems:  
- Distance between remote sensor and main console unit too long  
- Signal shielding materials such as metal surfaces, concrete walls or dense vegetation in the path of transmission.  
- Interference from wireless devices (such as cordless phones, radio headsets, baby listening devices) and electronic appliances.

**"The weather readings do not correlate with measurements from TV, radio or official weather reports."**  
Weather data can vary considerably due to different environmental conditions and placement of weather stations.  
Check the placement tips included in this manual to site your sensors in the best possible way.

**"The weather forecast is inaccurate."**  
The weather forecast is a prediction of weather after 12-24 hours, and may not reflect current weather conditions.

#### PRECATIONS

This product is engineered to give you years of satisfactory service if you handle it carefully. Here are a few precautions:  
1. Do not immerse the unit in water.  
2. Do not clean the unit with abrasive or corrosive materials. They may scratch the plastic parts and corrode the electronic circuit.  
3. Do not subject the unit to excessive force, shock, dust, temperature or humidity, which may result in malfunction, shorter electronic life span, damaged battery and distorted parts.  
4. Do not tamper with the unit's internal components. Doing so will invalidate the warranty on the unit and may cause unnecessary damage. The unit contains no user-serviceable parts.  
5. Only use fresh batteries as specified in the user's manual. Do not mix new and old batteries as the old ones may leak.  
6. Always read the user's manual thoroughly before operating the unit.

### Troubleshooting

**"The display shows dashes "" - "" for weather parameter(s)"**  
The display will show "" "" when the wireless link is lost with the remote sensor for the following pressure:  
- Thermo-Hygro Sensor - 15 minutes  
- Anemometer (Wind Sensor) - 15 minutes  
- Rain Sensor - 10 minutes

Check or replace the batteries for the corresponding sensor. Then press and hold the button **V** to enforce a search for all remote signals.

If the above does not solve the problem, check the wireless transmission path from the corresponding sensor to the main console unit and change their locations if necessary. Although wireless signals can pass through solid objects and walls, the sensor should ideally be within the line of sight of the console unit.

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### CAUTION

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- The contents of this manual may be reproduced without the permission of the manufacturer.

**Power**  
Main unit : use 6 pcs UM-3 or "AA" 1.5V battery  
AJC02 adaptor (V20kva (series I) optional) ... NOT INCLUDED in the packaging

Remote Thermo -Hygro unit : use 2 pcs UM-3 or "AA" 1.5V battery  
Remote Anemometer unit : use 2 pcs UM-3 or "AA" 1.5V battery  
Remote Rain gauge unit : use 2 pcs UM-3 or "AA" 1.5V battery

**Technical Specifications**  
Weather Station Receivers  
Receiver (Supply=0.0V, T=23°C)  
RF Transmission Frequency 433 MHz  
RF Reception Range 100 meters Maximum (Line of Sight)  
Thermo-Hygro Sensor 100 meters Maximum (Line of Sight)  
Barometric Pressure Range 500 hPa to 1100hPa (14.75 inHg to 32.44 inHg)  
Barometric Pressure resolution 0.1 hPa (0.003 inHg), 0.08 mmHg (1)

Outdoor Temperature Display Range -40°C to 80°C (-40°F to 176°F)  
Indoor Temperature Display Range -8.0°C to 80°C (14.2°F to 140°F)  
Temperature resolution 0.1°C or 0.2°F  
Humidity resolution 1%

Remete Thermo -Hygro. Rain gauge around 47s  
Rain gauge 10s  
Wind sensor 33s  
Wind Direction Range 16 positions  
Wind Direction Resolution 22.5°  
Wind Speed Range 0 to 169.9km/h (0 to 89.3 m/s)  
Wind/Gust Speed Display Update Interval 23 seconds

Wind/Gust Sampling Interval 11 seconds  
10/24h/Yesterday Rainfall Range 0.0 to 1999.9 mm (78.73 inch)  
Last week last month Rainfall Range 0 to 19999 mm (787.3 inch)  
Temperature Sensing Cycle (Indoor) 10s  
Humidity Sensing Cycle (Indoor) 10s

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Barometric Pressure resolution 0.1 hPa (0.003 inHg), 0.08 mmHg (1)

Outdoor Temperature Display Range -40°C to 80°C (-40°F to 176°F)  
Indoor Temperature Display Range -8.0°C to 80°C (14.2°F to 140°F)  
Temperature resolution 0.1°C or 0.2°F  
Humidity resolution 1%

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Wind sensor 33s  
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Wind/Gust Speed Display Update Interval 23 seconds

Wind/Gust Sampling Interval 11 seconds  
10/24h/Yesterday Rainfall Range 0.0 to 1999.9 mm (78.73 inch)  
Last week last month Rainfall Range 0 to 19999 mm (787.3 inch)  
Temperature Sensing Cycle (Indoor) 10s  
Humidity Sensing Cycle (Indoor) 10s

#### Wind Mode

- Wind Chill
- Temperature at place of anemometer
- Wind direction
- Wind speed
- Wind gust
- Alert for wind speed and wind gust speed

#### MEM

25.3°C 62%  
23.3°C 47%  
25.3°C 47%  
13:28mo  
20.3°C

#### Customizing your Weather Station

#### Pressure and Weather Forecast Mode

This part of the display indicates the current pressure, sea level pressure, weather forecast, moon phase and pressure trend.

A number of historical statistics can also be viewed, such as the sea level pressure values for the last 24 hours, moon phase for the previous and next 30 days, as well as a pressure/temperature/humidity history bar-chart.

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

#### Accessing Pressure and Weather Forecast Mode

From the main console unit: Press the button **A** or **V** until the weather forecast icon starts flashing.

#### Setting Pressure Parameters during Initial Start-Up

During the initial start-up of the main console unit, all functions in Pressure and Weather Forecast mode will be locked until the pressure settings are configured.

1. Choose Pressure Units.  
The unit icon "inHg" or "mmHg" or "hPa/mBar" should be flashing. Press the button **A** or **V** to select pressure unit as inHg, hPa/mBar or mmHg.  
Press **SET** to confirm your selection.
2. Choose Altitude Units.  
Press the button **A** or **V** to select altitude unit as feet or meters.  
Press the button **A** or **V** to adjust value. Press and hold either button for fast advance.  
Press **SET** to confirm your selection.
3. Set Altitude.  
Press the button **A** or **V** to adjust value. Press and hold either button for fast advance.  
Press **SET** to confirm your selection.
4. Upon completion the display will be returned to Pressure and Weather Forecast Mode.

**Note:** After initial start-up the altitude cannot be adjusted again until the main console unit is restarted.

#### Viewing Pressure and Altitude Data

In Pressure and Weather Forecast Mode, each press of **SET** rotates display between:  
- Sea level pressure  
- Local pressure  
- Local altitude

#### Setting the Sea Level Pressure

1. In Pressure and Weather Forecast Mode, press **SET** until the sea level pressure is displayed.
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