Vantage VUE™

Console

Quick Reference Guide

For more detailed information, see your *Vantage Vue Console manual.*

Current Weather Mode

Time & Date, Sunrise/Sunset

Arrow shows which variable is selected

Inside & Outside Temperature

Moon phase, alarm & forecast icons

Inside & Outside Humidity

Wind Rose Compass

Barometric pressure & trend

Antenna icon shows active transmission

Rain data & ET *

Wind Chill/Dew Point/Heat Index

Graph of selected variable

Weather Center with additional information
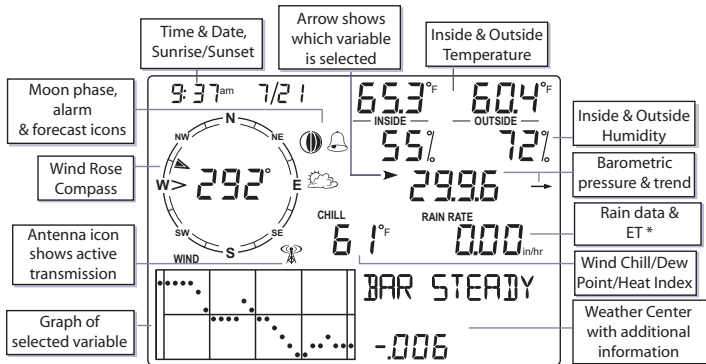
* ET, optional, available only when used with a Vantage Pro2 Plus or Vantage Pro2 ISS with Solar Radiation sensor.

Forecast Icons

| Mostly Clear | Partly Cloudy | Mostly Cloudy | Rain | Snow |

See the *Vantage Vue Console Manual* for a list of all the forecast icons.

Moon Phase Icons

| New Moon | Waxing Crescent | First Quarter | Waxing Gibbous | Full Moon | Waning Gibbous | Last Quarter | Waning Crescent | New Moon |

Moon phase icons are for Northern Hemisphere. Icon order is reversed in the Southern Hemisphere.

Icons

Alarm Bell — Appears when setting an alarm. Blinks on and off when an alarm is triggered.

GRAPH Graph — Indicates that graph mode is currently being displayed.

2ND — Indicates that 2ND was pressed and all the alternate key functions (printed above or below each key) can be used.

Antenna — Displays the current status of the console's reception. Antenna with waves indicates signal from a station. Antenna with no waves indicates resynchronization. No antenna means loss of signal.

Arrow — Indicates the current variable selected or the variable currently being graphed if in graph mode.

Umbrella — Appears when it is currently raining.

Setup Mode

To enter Setup Mode:

1. Press and release **2ND** and then press **SETUP.**
2. Press **DONE** to advance or **BAR** to step back through setup screens:
   - **TIME AND DATE** — Press **<** and **>** to move between segments. Press **+** and **-** to change the value of the flashing segment. Press **2nd** and **UNITS** to change from 12-hour to 24-hour clock.
   - **TIME ZONE** — Press **+** and **-** to cycle through time zones. Press **2ND** then **+** and **-** to set UTC offset.
   - **DAYLIGHT SAVING SETTINGS** — Press **+** or **-** to choose MANUAL or AUTO.
   - **DAYLIGHT SAVING STATUS** — If daylight savings setting = AUTO, displays current status. If daylight savings setting = MAN, press **+** or **-** to turn DST on or off.
   - **RECEIVING FROM** — Displays the transmitter IDs the console is currently receiving. (It may take several minutes to display all IDs.)

Setup Mode

- **ACTIVE TRANSMITTERS** — Press **<** or **>** to select ID, use **+** or **-** to set to ON (to receive from that station) or OFF. Press **GRAPH** to change station type: ISS, VP2, WIND.
- **RETRANSMIT** — Press **+** or **-** to set the retransmit function ON or OFF.
- **LATITUDE & LONGITUDE** — Press **<** or **>** to move between segments. Press **+** or **-** to change the value of the flashing segment. Press **2ND** and **UNITS** to toggle between NORTH and SOUTH (for latitude) or EAST and WEST (for longitude).
- **ELEVATION** — Press **<** or **>** to move between segments. Press **+** or **-** to change the value of the flashing segment. Press **2ND** and **UNITS** to toggle between FEET and METERS.
- **BAROMETRIC REDUCTION** — Press **+** or **-** to change barometric setting types: NOAA (default), ALT SETTING (Altimeter), or NONE.

Setup Mode

- **WIND CUP** (Change only if you are using a Vantage Pro2 ISS or an anemometer transmitter kit) — Press **+** or **-** to change wind cup option: SMALL, LARGE, or OTHER.
- **RAIN COLLECTOR** — Used at factory for calibration.
- **RAIN SEASON BEGINS** — Press **+** or **-** to change the month.
- **COOLING/HEATING DEGREE DAY BASE** — Press **<** or **>** to move between segments. Press **+** or **-** to change the value of the flashing segment. To clear, press **2ND** and **CLEAR**. (Default is "dashed.")
- **COMMENTARY** — Press **+** or **-** to toggle between the OFF and ON setting.
- **KEY BEEP** — Press **+** or **-** to toggle between the OFF and ON setting. Press **<** or **>** to change the volume/tone of sound.
- **BAUD RATE** (Optional, displays with WeatherLink Data logger) — Press **+** or **-** to set the available baud rate values. (Default of 19200 is fine for most applications.)

To Exit Setup Mode:

Press and hold **DONE**.

LIGHT | Light

Press LIGHT to toggle between:

       • Backlight on   • Backlight off

If the console is running on AC power:

• The backlight will remain on until you turn it off.

If the console is running on battery power:

• The backlight will remain on as long as you continue pressing various keys. If you press any key while the light is on, it will stay on for 60 seconds. Otherwise it will stay on for 15 seconds.
• The backlight will not come on when battery power is low.

Temperature `TEMP`

Press TEMP to toggle between:

• Outside Temperature   • Inside Temperature

Press 2ND and UNITS to change unit of measure.

There are four different units of measure: 0°F, 0.0°F, 0°C, 0.0°C.
All temperature-related readings (outside and inside temperature, wind chill, heat index, and dew point) will read in the same unit of measure. Changing one from °F to °C (or vice versa) changes all others.

Only outside and inside temperature can be displayed in tenths of a degree.

Humidity `HUM`

Press HUM to toggle between:

• Outside Humidity (%)   • Inside Humidity (%)

WIND Wind

Press WIND to toggle between:

• Wind Speed   • Wind Direction (degrees)

Press 2ND and UNITS to change unit of measure.

There are four different units of measure for wind speed: 0 mph, 0.0 m/s, 0 km/h, 0 knots

On the compass rose:

►   Current Wind Direction

>   Dominant Wind Direction — for a ten-minute period within the last hour. If dominant wind direction varies, up to six arrows (representing six ten-minute periods) may be shown.

⊳   Current wind direction is the same as one of the dominant wind directions.

Rain `RAIN`

Press RAIN to toggle between:

- Rain Rate: current rate
- Rain Day: rain accumulated since midnight
- Rain Month: rain accumulated month-to-date
- Rain Year: rain accumulated year-to-date

Press 2ND and UNITS to change unit of measure.

There are two different units of measure for rain values: (0.00 in, 0.0 mm).
Changing the unit of measure for rain changes ET units as well. See ET for
more information.

BAR Barometer

Press BAR to select:

• Barometric Pressure

Press 2ND and UNITS to change unit of measure

There are four units of measure for barometric pressure: 0.00 in, 0.0 mm, 0.0 hPa, and 0.0 mb.

Barometric Trend Arrow shows change over the last three hours:

Increase of 0.06" Hg (2.0 hPa or mb, 1.5 mm Hg) or more.

Increase of 0.02" Hg (0.7 hPa or mb, 0.5 mm Hg) or more.

Change of less than 0.02" Hg (0.7 hPa or mb, 0.5 mm Hg).

Decrease of 0.02" Hg (0.7 hPa or mb, 0.5 mm Hg) or more.

Decrease of 0.06" Hg (2.0 hPa or mb, 1.5 mm Hg) or more.

Second | 2ND

Press 2ND to select the second key function.

The second key function is printed above the top keys and below the bottom keys.

The 2ND icon will appear near the time and date. After you press another key, the icon will disappear. If you wish to select another second key function, you must press **2ND** again.

The icon will also time out and disappear from the screen if you do not press another key within a few seconds.

Whenever you see "Press 2ND and Another Key:"

Press and release **2ND** and then immediately press the other key.

Press 2nd and + or - to:

Change the console's contrast: lighter (**+**) or darker (**-**). (The changes are subtle and may require several presses.)

2ND	HEAT TEMP	Heat Index
2ND	DEW HUM	Dew Point
2ND	CHILL WIND	Wind Chill

Press 2ND and HEAT to: Display Heat Index

Press 2ND and DEW to: Display Dew Point

Press 2ND and CHILL to: Display Wind Chill

Press 2ND and UNITS to change unit of measure.

There are two different units of measure: 0°F, 0°C,
All temperature-related readings (outside and inside temperature, wind chill, heat index, and dew point) will read in the same unit of measure. Changing one from °F to °C (or vice versa) changes all others.

Evapotranspiration (ET) (Optional)

ET
RAIN

Evapotranspiration measurements can only be accessed if the Vantage Vue Console is listening to a Vantage Pro2 Plus ISS or Vantage Pro2 with solar radiation sensor. If you press **2ND** and **ET** while listening to a Vantage Vue ISS, the console will not display ET readings and you will hear an error beep.

Press 2ND and ET to toggle between:

- ET Day
- ET Month
- ET Year

Press 2ND and UNITS to change unit of measure.

There are two different units of measure for ET values: (0.00 in, 0.0 mm). Changing the unit of measure for ET changes RAIN units as well.

WxCen Weather
Center

Press WxCen for any Weather Variable to:

- Toggle between multiple screens of weather information for each variable displayed in the Weather Center section of the console. Each variable may have one or multiple screens displayed in the Weather Center. Press a variable key and then press **WxCen** multiple times to scroll through the available screens.

See the *Vantage Vue Console Manual* for more information on all the screens available in the Weather Center.

Graphs GRAPH

To view Graph Mode:

1. Press a variable and then press **GRAPH**. The graph and the minimum and maximum readings for the selected weather variable display. The reading in the weather variable field corresponds to the flashing dot on the graph. Press the key or key combination for any variable to view that variable in Graph Mode.

2. Press **<** or **>** to move right or left on the graph. The selected data point flashes, and the reading in the weather variable field changes. The time and/or date will also change as you move backward and forward.

3. Press **+** or **-** to change the graph to the highs and lows for the current and last 25 hours, days, months, or years. Press **HI/LOW** to switch between highs and lows. The time and date change as you move backward and forward in time. (NOTE: Not all highs and lows are available for all weather variables. See *Vantage Vue Console Manual* for details.) Press **DONE** to exit the Graph Mode.

HI/LOW Highs & Lows

To view highs and lows:

1. Press **HI/LOW**. The time and date of the DAY HIGH for the currently selected weather variable, along with a graph showing the highs for the last 25 hours, days, months, or years is displayed.
2. Select a variable.
3. Press **HI/LOW** or **+** or **-** to scroll between:

> Day Highs • Day Lows
>
> Month Highs • Month Lows
>
> Year Highs • Year Lows

The time and date changes as you move between the various highs and lows. (NOTE: Not all highs and lows are available for all weather variables. See *Vantage Vue Console Manual* for details.)

4. Press **(<)** or **(>)** to scroll through the dots on the graph. The time and date will change and the corresponding dot on the graph will flash. Press **DONE** to exit the HIGH/LOW mode.

Time/Date; Sunrise/Sunset TIME

Press TIME to toggle between:

- Current Time & Date
- Times of Sunrise & Sunset

Done DONE

Press DONE to:

- Accept an alarm setting.
- Exit the alarm screen.
- Exit the high/low screen.
- Go to the next screen in the Setup Mode.
- Silence an alarm.
- Exit the graph screen.
- Accept a calibration setting.

Press and hold DONE to:

- Exit Setup Mode.

To set an alarm:

1. Press **2ND** then **ALARM** to enter Alarm Mode. The alarm bell icon will appear on the screen. In each field, you will either see the alarm setting or, if no alarm has been set, a series of dashes.
2. Press a weather variable key, or use **+, –** , **<**, or **>** to move between weather variables. Except for the time alarm, the arrow icon displays next to the variable you have selected.
3. Press **HI/LOW** to switch between high and low alarms. (Note: Not all alarms are available for all weather variables. See *Vantage Vue Console Manual* for details.)
4. Press **2ND** then **SET** to enter or change an alarm setting. Use **+** or **–** to change the digit within a field. Use **<** or **>** to move to the next field. Press **DONE** to accept the alarm setting. Repeat steps 2–4 to set another alarm, or press **DONE** again to exit the alarm screen.

Silence & Clear Alarms

When an alarm is triggered, you will hear an audible alarm:

- Until conditions change (i.e., they rise above or fall below the alarm thresholds you have set) or you clear the alarm, if the console is being run on AC power.
- For two minutes, if the console is running on battery power.
- For one minute, for a time alarm.

And you will see visible alarms:

- The alarm bell icon will blink on and off.
- A message will appear in the Weather Center.
- **Press DONE to silence the alarm.**

To clear all alarm settings:

Press **2ND** then **ALARM** to enter the alarm mode. Press **2ND** then press and hold **ALARM** until dashes appear in all the fields. Press **DONE** to exit the alarm screen. (To clear a single alarm, see page 22.)

| 2ND | GRAPH | Enter or Change |
| | SET | Alarm or Calibration |

Press 2ND and SET to:

Enter or change an alarm or calibration setting. Choose Alarm Mode or a weather variable:

1. Use **+** and **-** to change the digit within a field. Use **<** or **>** to move to the next field.

To clear daily, monthly or yearly HIGH/LOW data:

1. Press **HI/LOW.**
2. Select the variable you wish to clear.
3. Press **2ND** then **CLEAR**, holding **CLEAR** down until the digits stop flashing and zeroes or dashes appear in the field.

To clear a single alarm setting:

1. Press **2ND** then **ALARM.**
2. Select the alarm reading you wish to clear.
3. Press **2ND** then **CLEAR**, holding **CLEAR** down until the digits stop flashing and dashes appear in the fields.
4. Press **DONE** to return to the current weather screen.

To Clear All:

1. To clear all highs and lows and all alarms, press **WIND**, then **2ND**, then **CLEAR**, holding **CLEAR** down for the entire 6-second countdown until you see CLEARING NOW in the Weather Center.

Press 2ND and UNITS to:

Change the unit of measure for a selected variable.

- All temperature-related readings (inside and outside temperature, wind chill, heat index, and dew point) will read in the same unit of measure. Changing one from °F to °C (or vice versa) changes all the others.
- All RAIN and ET readings will read in the same unit of measure (if ET is available for viewing).

Press 2ND and UNITS in Setup Mode to:

- Change from 12- to 24-hour clock and from month/day to day/month.
- Change latitude from north to south.
- Change longitude from west to east.
- Change elevation from feet to meters.

Enter Setup Mode `2ND` **DONE**

SETUP

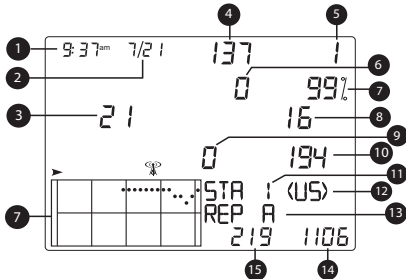**Press 2ND and SETUP to:**

Enter Setup Mode.

Diagnostic Screens

To Display the Console Diagnostic Screens:

Press and hold **TEMP** then press **HUM** to display the Statistical Diagnostic Screen.

Statistical Diagnostic Screen:

1. Time or number of closed anemometer reed switch*
2. Date or number of open anemometer reed switch*
3. CRC errors
4. Firmware version
5. Longest streak of bad packets
6. Console resynchs
7. % Good packets
8. Total bad packets.
9. Current streak of bad packets
10. Current streak of good packets
11. Station number
12. Transmitter domain
13. Repeater ID
14. Total good packets received
15. Longest streak of good packets

Diagnostic Screens

TEMP HUM

2ND WIND CHILL

Press and hold **TEMP** then press **HUM** to display the Statistical Diagnostic Screen. Press **2ND** and **CHILL** to toggle between the Statistical and Reception Diagnostic Screens. Press **DONE** to exit Diagnostic screens.

Reception Diagnostic Screen
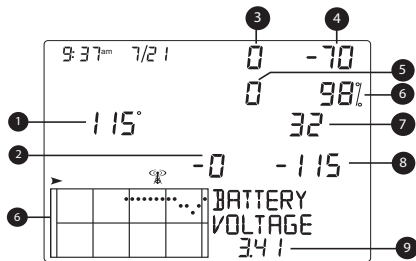
1. 8-bit timer value*
2. Radio frequency error of last packet
3. Frequency correction factor
4. Signal strength of last packet
5. Times Phase Lock Loop did not lock*
6. % Good packets
7. Frequency index of next packet*
8. Background noise level
9. Console battery voltage

* Used by Davis engineers. Please see your *Vantage Vue Console Manual* for more information on console diagnostic screens.

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