# **Davis Instruments**

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Part Number: 07395.135 Rev A (02/09/01) © 2001 by Davis Instruments Corp

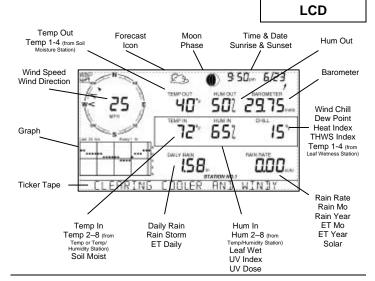
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# Quick Reference Guide

## UV

If you have a UV sensor, press **UV** to toggle between:

- UV Index
- UV Dose (meds)



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# TIME

Press **TIME** to toggle between:

- Current Time & Date
- Time of Sunrise & Sunset

To set the time and date:

- 1. Press and hold **DONE** and then press ( ) to enter the setup screen.
- Press **DONE** three times or until you see ENTER TIME in the ticker tape.
- Press (+) or (-) to change the flashing digit. Press (<) or (>) to move between fields.
- Press 2<sup>ND</sup> & UNITS to change from 12- to 24-hour clock or from month/day to day/month, if desired.
- 5. Press and hold **DONE** to return to the current weather screen.

To correct the time of sunrise and sunset:

Enter latitude, longitude, and time zone in setup screen. See "SETUP."

TICKER TAPE

Press the appropriate key(s) to view these messages:

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Whenever you see "Press **2**<sup>ND</sup> & **ANOTHER KEY** " in this booklet, this means to press and release **2**<sup>ND</sup> and then immediately press the other key.

For wireless stations:

- X flashing in the right corner means you are receiving data packets.
- L means the signal has been lost.
- $\ensuremath{\mathsf{R}}$  means the console is attempting to reestablish reception.

## **DIAGNOSTICS**

To receive from a different transmitting station:

- 1. To enter the setup screen, press and hold **DONE** and then press ( ).
- In the first setup message, you will see RECEIVING FROM. Wait a few moments until all the available station IDs are displayed.
- 3. Press **DONE** to advance to the next setup message (station 1).
- Press (+) or (-) to set the station ON (to receive from that station) or OFF (to not receive).
- Press GRAPH to change the station type: ISS, TEMP, HUM, TEMP HUM, WIND, RAIN, LEAF, SOIL, SENSORLINK.
- 6. Press **STATION** to advance to the next station ID.
- 7. Repeat steps 4–6 to set multiple stations.
- 8. Press and hold **DONE** to return to the current weather screen.

To retransmit data to another wireless console:

- 1. To enter the setup screen, press and hold **DONE** and then press ( ).
- 2. Press **DONE** twice to advance to the RETRANSMIT setup message.
- 3. Press (+) or (-) to set the retransmit capability ON or OFF.
- 4. Press **STATION** to advance to the next station ID.
- 5. Press and hold **DONE** to return to the current weather screen.

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The diagnostic screen is used by our tech support staff to help diagnose problems. If you are experiencing difficulties, call us at **(510) 732 7814**, Monday through Friday, 7:00 a.m. to 5:30 p.m., Pacific Time.

To check reception and/or change antenna gain:

- To enter the diagnostic screen, press and hold **TEMP** and then press **TIME**. You will see GAIN ON or GAIN OFF in the ticker tape.
- 2. Look for the number with the % sign in the middle of the top row. A number >= 90% is good or excellent. If the number you see is < 90%, try changing the gain or relocating the console. Sometimes moving the console just a few feet can make a big difference.</p>
- 3. To change the antenna gain, press HI/LOW. Set GAIN OFF if there are multiple transmitters (including cordless phones or baby monitors) in the area. Set GAIN ON if the transmitter and the console are far apart from each other or there are physical barriers (such as trees, walls, or large appliances) between them.
- 4. To exit the diagnostic screen, press **DONE**

SET

To set an alarm:

- 1) Press **2**<sup>ND</sup> & **ALARM** to enter the alarm screen. The  $\triangle$  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 TIME or a weather variable key, or use (+), (-), (<), or (>) to move between weather variables. Except for the time alarm, the graph icon will move to show you which variable you have selected.
- 3) Press HI/LOW to switch between high and low alarms. Not all alarms are available for all weather variables. See *Console Manual* for details.
- Press 2<sup>ND</sup> & 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.
- 5) Press **DONE** to accept the alarm setting. Repeat steps 2–4 to set another alarm, or press **DONE** again to exit the alarm screen.

The **SET** key is also used to enter selected daily, monthly, and yearly totals and to calibrate selected readings. See *Console Manual* for details.

**ALARM** 

To set an alarm: See "SET." (NOTE: Not all alarms are available for all weather variables. See *Console Manual* for details.)

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 being run on battery power.
- For one minute, if you have set a time alarm.

And you will see visible alarms:

- The alarm bell icon will blink on and off.
- A message will appear in the ticker tape.

To silence an alarm: Press **DONE** 

To clear all alarm settings: Press 2<sup>ND</sup> & ALARM to enter the alarm screen. Press 2<sup>ND</sup> and then press and hold ALARM until dashes appear in all the fields. Press DONE to exit the alarm screen.

To clear individual alarm settings: See "CLEAR."

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CHILL

## **RAIN DAY**

Press **2**<sup>ND</sup> & **RAIN DAY** to toggle between:

- Rain Day (0.00 in, 0.0 mm)
- Rain Storm (0.00 in, 0.0 mm).

Press 2<sup>ND</sup> & UNITS to change unit of measure.

All rain and ET readings will read in the same unit of measure. Chang-

All rain and ET readings will read in the same unit of measure. Changing one from 0.00 inches to 0.0 mm (or vice versa) changes all others.

To view the last 24 rain storms:

- 1. Select Rain Storm, then press **GRAPH** to enter the graph screen.
- 2. Press ( < ) or ( > ) to move backward or forward in time.
- 3. Press **DONE** to exit the graph screen.

On the ticker tape:

LAST 24 HRS OF RAIN . . . will appear on the ticker tape if it has rained within the last 24 hours and you are currently displaying rain rate. STORM STARTED ON . . . will appear when you are displaying rain storm.

Press 2<sup>ND</sup> & CHILL to display:

• Wind Chill (°F, °C)

Press 2<sup>ND</sup> & UNITS to change unit of measure.

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 others.

On the ticker tape:

WIND CHILL WARNING . . . will appear on the ticker tape when you are displaying wind chill if the reading is  $<0^{\circ}F$  ( $-18^{\circ}C$ ) and the 10-minute average wind speed is >=10 mph (16 km/h).

Press **HUM** to toggle between:

- Outside Humidity (%)
- Inside Humidity (%)
- Hum 2-8 (%) if you have a Temperature/Humidity Station.
- Leaf Wetness & Outside Temperature (0°F, 0.0°F, 0°C, 0.0°C) if you have a Leaf Wetness Station. Continue to press HUM to display each leaf wetness/temperature pair. Maximum is four pairs.

Press **2**<sup>ND</sup> & **DEW PT** to display:

Dew Point (°F, °C)

Press 2<sup>ND</sup> & UNITS to change unit of measure.

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 others.

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## **HEAT**

Press 2<sup>ND</sup> & **HEAT** to toggle between:

- Heat Index (°F, °C)
- THSW (Temp-Hum-Wind-Sun) Index (°F, °C) if you have solar radiation sensor.

Press 2<sup>ND</sup> & UNITS to change unit of measure.

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 others.

On the ticker tape:

HEAT INDEX WARNING . . . will appear on the ticker tape when you are displaying heat index if the reading is >=90°F (32°C).

If you have a solar radiation sensor, press **2**<sup>ND</sup> & **ET** to toggle between:

- ET Day (0.00 in, 0.0 mm)
- ET Month (0.00 in, 0.0 mm)
- ET Year (0.00 in, 0.0 mm)

Press 2ND & UNITS to change unit of measure.

All rain and ET readings will read in the same unit of measure. Changing one from 0.00 inches to 0.0 mm (or vice versa) changes all others.

Update interval:

ET is updated once an hour, on the hour.

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## **FORECAST**

Update Interval:

The forecast is updated once an hour, on the hour.

Forecast Icons:

The forecast icons predict the weather within the next twelve hours.











Mostly Clear Partly Cloudy Mostly Cloudy Rain Likely Snow

If rain or snow is possible (but less certain than "likely"), you will see the partly cloudy icon along with the rain or snow icon.

Ticker Tape:

Press **2**<sup>ND</sup> & **FORECAST** to view a detailed forecast in ticker tape. The ticker tape messages predict the weather up to 48 hours ahead.

**GRAPH** 

To enter the graph screen: Press **GRAPH**. You will see the graph and the min & max readings for the selected weather variable. The reading in the weather variable field corresponds to the flashing dot on the graph. To view another weather variable, press the key(s) for that variable.

To view a selected data point: Press (<) or (>) to move right or left on the graph. The selected data point will flash, and the reading in the weather variable field will change. The time and/or date will also change as you move back and forward on the graph.

To graph highs & Iows: Press (+) or (-) to change the graph to the highs and lows for the last 24 days, months, or years. Press HI/LOW to switch between highs and lows. The time and date will change as you move back and forward in time. (NOTE: Not all highs and lows are available for all weather variables. See *Console Manual* for details.)

To exit the graph screen: Press **DONE** 

DONE

HI/LOW

Press **DONE** to:

- · Accept an alarm setting.
- Exit the alarm screen.
- · Silence an alarm.
- · Exit the graph screen
- Exit the high/low screen.
- · Go to the next message in the setup screen.

Press and hold **DONE** and then press ( - ) to:

• Enter the setup screen.

Press and hold **DONE** to:

• Exit the setup screen.

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To enter the high/low screen: Press HI/LOW . You will see the time & date of the DAY HIGHS for the currently selected weather variable, along with a graph showing the highs for the last 24 hours or days.

To view a different weather variable, press the key(s) for that

To scroll between highs & lows: Press HI/LOW or (+) or (-) to scroll between:

> Day Highs • Day Lows Month Highs • Month Lows

Year Highs . Year Lows

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

To go back or forward in time: Press (<) or (>). The time and date will change and the corresponding dot on the graph will flash.

To exit the high/low screen: Press **DONE**.

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**RAIN YR** 

## **CLEAR**

To clear a daily, monthly, or yearly amount:

- 1. Select the variable you wish to clear.
- 2. Press 2<sup>ND</sup> then CLEAR, holding CLEAR down until the digits stop flashing and zeroes appear in the field.

To clear an alarm setting:

- 1. Press **2**<sup>ND</sup> & **ALARM** to enter the alarm screen.
- 2. Select the alarm setting (see "ALARM" for detailed instructions).
- 3. Press 2<sup>ND</sup>, 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 highs & lows:

Follow the directions above for clearing alarms, except press HI/LOW to enter the high/low screen.

To clear ALL (including highs and lows, alarm settings, and daily, monthly, and yearly amounts):

- 1. Press WIND .
- 2. Press 2<sup>ND</sup> then CLEAR, holding CLEAR down for the entire sixsecond countdown until you see CLEARING NOW in the ticker tape.

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**LAMPS** 

Press **2**<sup>ND</sup> & **LAMPS** 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 or a ticker tape message is scrolling across the screen. It will automatically turn off if you do not press a key within ten seconds.
- The backlight will not come on when battery power is low.

BAR

Press **BAR** to select:

• Barometric Pressure (0.00 in, 0.0 mm, 0.0 hPa, 0.0 mb)

Press 2<sup>ND</sup> & UNITS to change unit of measure.

To correct for elevation change:

- 1. Press and hold **DONE** and then press (-) to enter the setup screen.
- 2. Press **DONE** nine times or until you see ENTER ELEVATION.
- 3. Press **2**<sup>ND</sup> & **UNITS** to change from feet to meters, if desired.
- 4. Press (+) or (-) to change the flashing digit. Press (<) or (>) to move between fields.
- 5. Press and hold **DONE** to return to the current weather screen.

Barometric Trend Arrow shows change over the last three hours:

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

- Increase of 0.02" Hg (0.7 hPa, 0.5 mm Hg) or more.
- → Change of less than 0.02" Hg (0.7 hPa, 0.5 mm Hg).

Decrease of 0.02" Hg (0.7 hPa, 0.5 mm Hg) or more. Decrease of 0.06" Hg (2.0 hPa, 1.5 mm Hg) or more.

Press RAIN YR to toggle between:

- Rain Month (0.00 in, 0.0 mm)
- Rain Year (0.00 in, 0.0 mm)
- Rain Rate (0.00 in, 0.0 mm)

Press 2<sup>ND</sup> & UNITS to change unit of measure.

All rain and ET readings will read in the same unit of measure. Changing one from 0.00 inches to 0.0 mm (or vice versa) changes all others.

When it is currently raining:

will appear between the rain day and rain year fields.

On the ticker tape:

LAST 15 MIN OF RAIN . . . will appear in the ticker tape when you are displaying rain rate.

Press 2<sup>ND</sup> to select the second key function (printed in white type above each key).

The 2nd icon will appear in upper right corner of screen, below 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 2<sup>h</sup>

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 & ANOTHER KEY" in this booklet, this means to press and release 2<sup>ND</sup> and then immediately press the other key.

If you have a solar radiation sensor, press 2<sup>ND</sup> & SOLAR to display:

Solar Radiation (W/m²)

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**TEMP** 

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#### **SETUP**

To enter setup: Press and hold **DONE** and then press ( - ). Press **DONE** to advance or **BAR** to reverse through these setup messages:

- 1. RECEIVING FROM. Displays available transmitting stations.
- 2. ON/OFF. To set reception for one of the available transmitting stations. See "STATION."
- 3. RETRANSMIT ON/OFF. To retransmit to another wireless console. See "STATION."
- 4. ENTER TIME. To change the time and date. See "TIME."
- 5. ENTER LATITUDE. Press ( + ) or ( ) to change the flashing digit. Press ( < ) or ( > ) to move between fields. Press 2<sup>NU</sup> & UNITS to change from north to south.
- 6. ENTER LONGITUDE. Press (+) or (-) to change the flashing digit. Press (<) or (>) to move between fields. Press (2<sup>NU</sup>) & UNITS to change from west to east.
- 7. TIME ZONE. Press (+) or (-) to view time zones. Press 2ND to enter GMT offset instead of time zone. Press (+) or (-) to change GMT offset.
- 8. DAYLIGHT SAVINGS AUTO/MANUAL. Press (+) or (-). to change the setting.
- 9. DAYLIGHT SAVINGS OFF/ON. If daylight savings setting = AUTO, displays the current status. If daylight savings setting = MANUAL, press (+) or (-) to change the current status.
- 10. ENTER ELEVATION. To correct barometric pressure. See "BAR."
- 11. WIND CUP SIZE SMALL/LARGE. Press (+) or (-) to change the setting.
- 12. RAIN COLLECTOR .01 IN/.2 MM/.1 MM. Press (+) or (-) to change the setting.
- 13. RAIN SEASON BEGINS. Press (+) or (-) to change the month.

To exit the setup screen: Press and hold **DONE** 

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Press **TEMP** to toggle between:

- Outside Temperature (0°F, 0.0°F, 0°C, 0.0°C)
- Inside Temperature (0°F, 0.0°F, 0°C, 0.0°C)
- Temp 2-8 (0°F, 0.0°F, 0°C, 0.0°C) if you have one or more Temperature and/or Temperature/Humidity Stations.
- Soil Moisture (centibars) & Soil Temperature (0°F, 0.0°F, 0°C, 0.0°C) if you have a Soil Moisture Station. Continue to press TEMP to display each soil moisture/temperature pair. Maximum is four pairs.

Press 2<sup>ND</sup> & UNITS to change unit of measure.

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 others.

For temperature from Leaf Wetness Station, see "HUM."

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## **ICONS**

Forecast Icons. See "FORECAST."

Moon Phase. The icons shown below are for the Northern Hemisphere. For the Southern Hemisphere, the orientation is reversed.





















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



Graph Icon. Appears next to a weather variable when you press that variable's key. On most screens, indicates that that variable is being shown on the graph. On the alarm screen, indicates that you are setting an alarm for that variable.



2nd Second Function. Appears when you press 2ND. Used to select the variable or function printed in white above each key.



Umbrella. Appears when it is currently raining.

UNITS

Press 2<sup>ND</sup> & 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
- All rain and ET readings will read in the same unit of measure (0.00 inches or 0.0 mm).

In the setup screen, press 2<sup>ND</sup> & UNITS 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.
- Change wind cup size from small to large.
- · Change unit of measure for rain collector.

**WIND** 

#### INTRO

This "Quick Reference Guide" will provide you with abbreviated instructions for all functions of the Vantage Pro console. For more detailed instructions, see the *Vantage Pro Console Manual*.

## Pages with:

**CLEAR** headings provide general instructions and information about the console.

**BLACK** headings provide instructions for using each key. They are presented in alphabetical order.

#### For instructions about:

- LEAF WETNESS, see "HUM."
- SOIL MOISTURE, see "TEMP."



REMEMBER: Press and hold **DONE** at any time to return to the current weather screen.

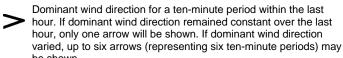
Press **WIND** to toggle between:

- Wind Speed (0 mph, 0.0 m/s, 0 km/h, 0 knots)
- Wind Direction (degrees)

Press 2ND & UNITS to change unit of measure.

#### On the compass rose:

Current wind direction



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

#### On the ticker tape:

10 MIN AVG WIND SPEED  $\dots$  will appear on the ticker tape when you are displaying wind speed.