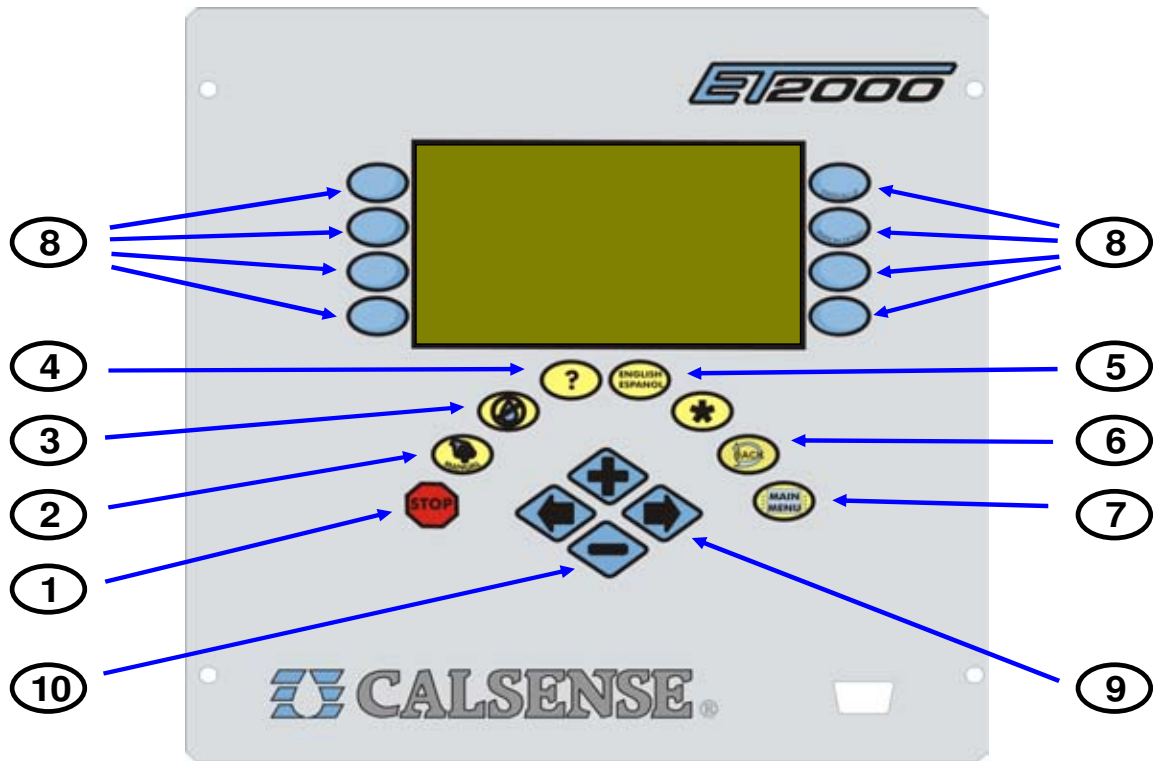


RAIN BUCKET

ET2000 (400 SERIES) RAIN BUCKET SETUP



- 1 STOP** – The STOP key will stop any currently running Scheduled watering Cycle, Manual Cycle, Test Cycle, Manual Special Sequence.
- 2 MANUAL** – The MANUAL key will perform Manual Water, Test, Master Valve Override and Manual Special Sequence.
- 3 NO WATER** – The NO WATER key will turn the controller Off and set No Water Days.
- 4 ?** – The ? key is used to access the controller Help screens.
- 5 ENGLISH / ESPANOL** – The ENGLISH / ESPANOL key allows you to toggle the displayed text between English and Spanish.
- 6 BACK** – The BACK key will go back to the previous screen.

- 7 MAIN MENU** – The MAIN MENU key is used to access the different program features of the controller.
- 8 MENU KEYS** – MENU keys select the different features of commands in the different screens and are adjacent to the left and right side of the controller's display screen. The text in the screen will point towards the MENU key that needs to be pressed.
- 9 LEFT / RIGHT ARROW KEYS** – The LEFT / RIGHT ARROW keys move the highlighted cursor around the different screens when setting up or editing the controller's features and options.
- 10 PLUS / MINUS KEYS** – The PLUS / MINUS keys increase or decrease values or answer Yes or No questions in the different screens.



RAIN BUCKET SETUP (WITH RAIN BUCKET INSTALLED)

1. Press the **MAIN MENU** key.
2. Press the **WEATHER** Menu key (Figure 1).

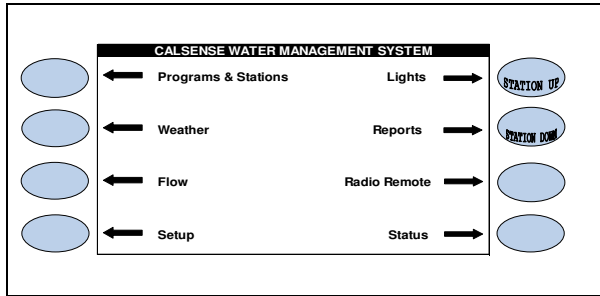


Figure 1

The WEATHER SETUP screen (Figure 2).

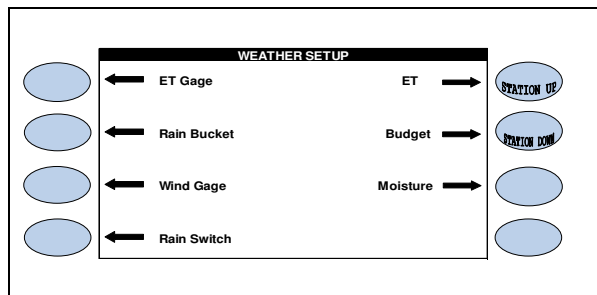


Figure 2

3. Press the **RAIN BUCKET** Menu key.

The RAIN BUCKET SETUP screen (Figure 3).

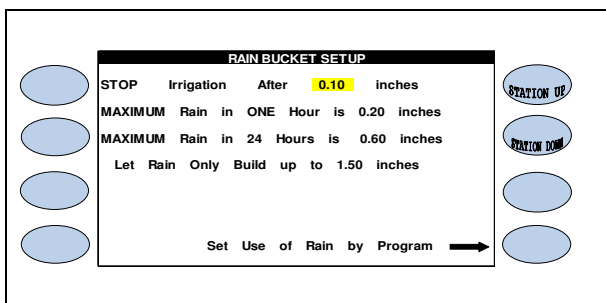


Figure 3

The four (4) settings on the screen determine how much actual rainfall will be placed into the rain table, which are used to offset irrigation run times. The following is a description of each:

Stop irrigation after: This setting determines how much rain must fall before the controller will start accumulating rainfall values in the rain table. It also determines when to halt any on going irrigation. In figure 3 0.10 inches of rain will have to fall before any rain data starts to accumulate in the rain table.

Maximum Hourly Rain: This setting determines the maximum amount of rain that will be put in the rain table after a period of one (1) hour of rain. In figure 3, a maximum of 0.20 inches of rain will be put into the rain table, no matter how much rain falls in a one (1) hour period. The amount of rain from this setting put into the rain table, will increase only until it reaches the 24 HOUR TOTAL setting.

Maximum 24 Hour Total: This setting determines the maximum amount of rain that will be put into the rain table in a 24 hour period. In figure 3, a maximum of 0.60 inches of rain will be put into the table, no matter how much rain falls in a 24 hour period. The amount of rain from this setting put into the rain table, will increase only until it reaches the LET RAIN ONLY BUILD UP TO: setting.

Let Rain Only Build Up to: This setting determines the maximum amount of rain that can be stored in the rain table. In figure 3, the controller will stop storing rain data in the rain table if the "Maximum 24 Hour" Total reaches 1.50 inches of rain.

4. Press the **PLUS** or **MINUS** keys to change the settings.
5. Press the blue **ARROW** keys to move the cursor to the next entry.

Set Use of Rain by Program: This section describes how to enable the use of rain in the ET2000 controller. Each program can be set individually to either use or not use rain to offset irrigation run times.

From the RAIN BUCKET SETUP screen (Figure 3).

6.  Press the **SET USE OF RAIN BY PROGRAM** Menu key.

The USE OF RAIN BY PROGRAM screen (Figure 4).

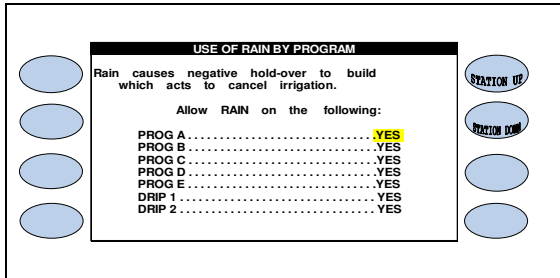





Figure 4

Here you will have the option of enabling or disabling the use of negative hold-over (rain) for any of the controller's seven programs. If you select YES, Negative hold-over will be used for that program to reduce irrigation run times. If you select NO, rain will have no effect on irrigation run times for that program. If there is no rain bucket installed and you are not sharing rain data through the Calsense Command Center program, these settings will have no effect on irrigation.

7.  Press the **PLUS** or **MINUS** keys to change the setting.
8.  Press the blue **ARROW** keys to move the cursor to the next entry.
9.  Press the **MAIN MENU** key to return to the MAIN MENU screen (Figure 5).

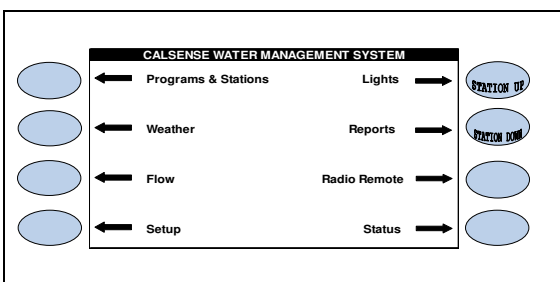



Figure 5

RAIN BUCKET SETUP (WITHOUT RAIN BUCKET INSTALLED)

Note: This would be used by Command Central software users, or controllers in a chain.

Form the MAIN MENU screen.

1.  Press the **WEATHER** Menu key (Figure 6).

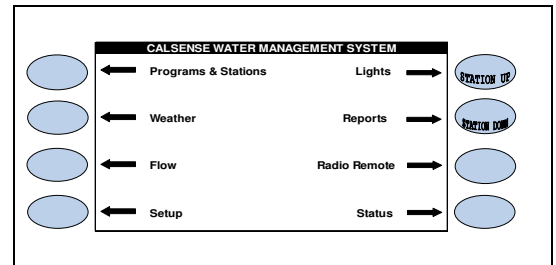


Figure 6

The WEATHER SETUP screen (Figure 7).

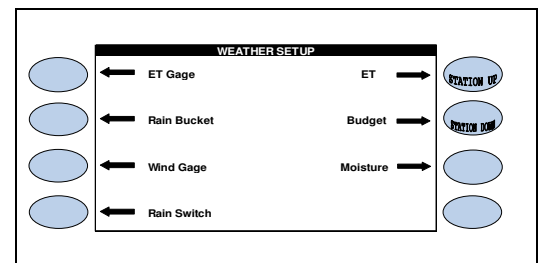


Figure 7

2.  Press the **RAIN BUCKET** Menu key.

The RAIN BUCKET SETUP screen (Figure 8).

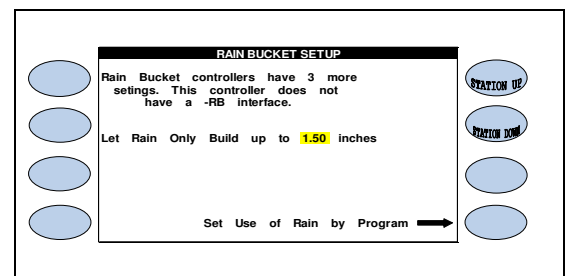


Figure 8

If a controller is not wired to a rain bucket, the RAIN BUCKET SETUP screen will only have one setting (Figure 8). This setting is described below:

Let Rain Only Build Up to: This setting determines the maximum amount of rain that can be stored in the rain table. In figure 8 the controller will stop storing rain data in the rain table if the Maximum 24 Hour Total reaches 1.50 inches of rain.

Note: If you are not sharing rain data using the Calsense Command Center software, this setting will have no effect on irrigation.

- Press the **PLUS** or **MINUS** keys to change the setting.

Set Use of Rain by Program: This section describes how to enable the use of rain in the ET2000 controller. Each program can be set individually to either use or not use rain to offset irrigation run times. From the RAIN BUCKET SETUP screen (Figure 8) press the **SET USE OF RAIN BY PROGRAM** Menu key to access the USE OF RAIN BY PROGRAM screen (Figure 9).

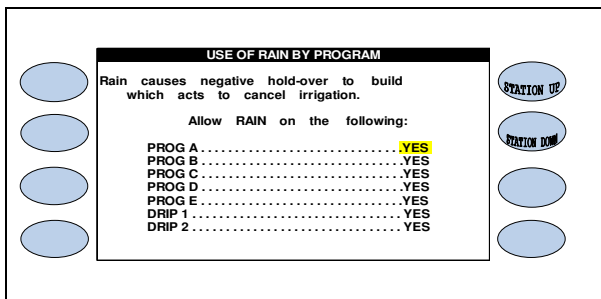


Figure 9

Here you will have the option of enabling or disabling the use of negative hold-over (rain) for any of the controller's seven programs. If you select YES, Negative hold-over will be used for that program to reduce irrigation run times. If you select NO, rain will have no effect on irrigation run times for that program. If there is no rain bucket installed and you are not sharing rain data through the Calsense Command Center program, these settings will have no effect on irrigation.

- Press the **PLUS** or **MINUS** keys to change the setting.

- Press the blue **ARROW** keys to move the cursor to the next entry.
- Press the **MAIN MENU** key.

The MAIN MENU screen (Figure 10).

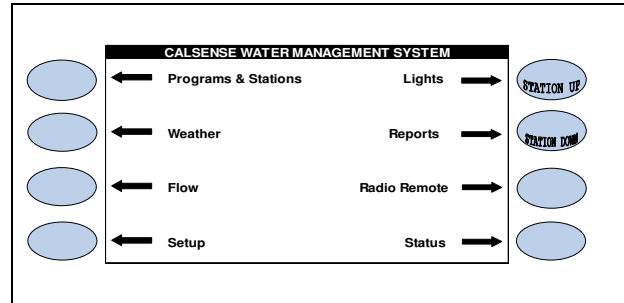


Figure 10

RAIN SWITCH SETUP

From the MAIN MENU screen.

- Press the **WEATHER** Menu key (Figure 11).

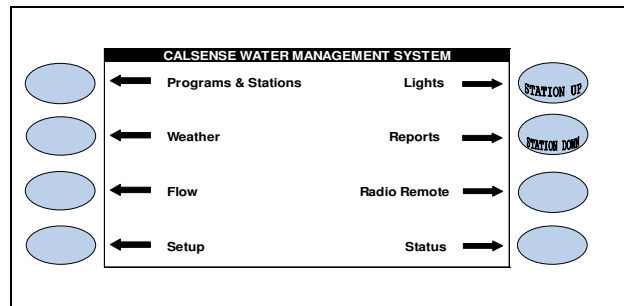


Figure 11

This will bring you to the WEATHER SETUP screen (Figure 12).

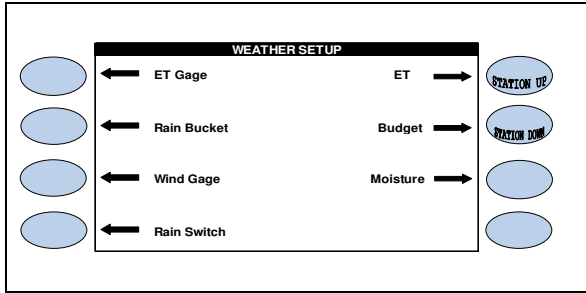



Figure 12

2.  Press the **RAIN SWITCH** Menu key if you want to activate a Rain Switch.

The RAIN SWITCH SETUP screen (Figure 13).

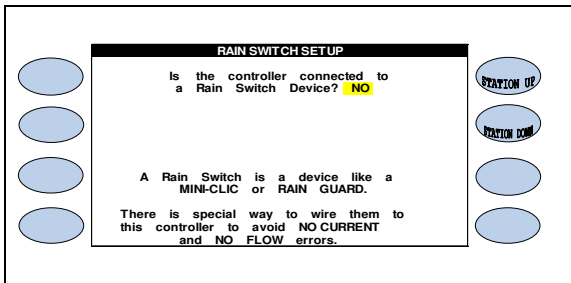



Figure 13

3.  Press the **PLUS** or **MINUS** keys to change the setting.

If you select YES this will change the screen to read, "Irrigation will be stopped when the rain switch detects rain". If you do not want irrigation to be affected by the rain switch leave the setting at the default setting of NO (Figure 14).

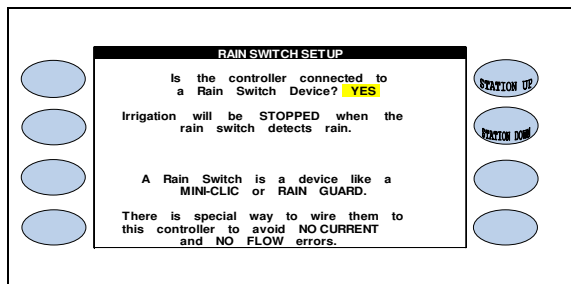




Figure 14

4.  Press the **MAIN MENU** key to return to the MAIN MENU screen.

 **REPORTS / ET & RAIN TABLES.**

From the MAIN MENU screen.

1.  Press the **REPORTS** Menu key (Figure 15).

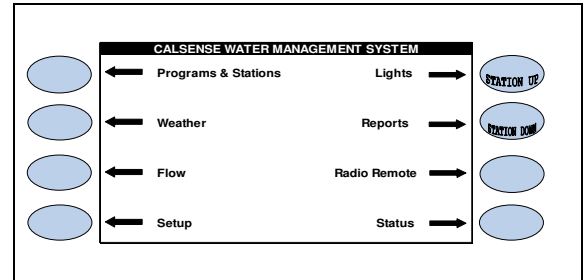


Figure 15

The REPORTS screen (Figure 16).

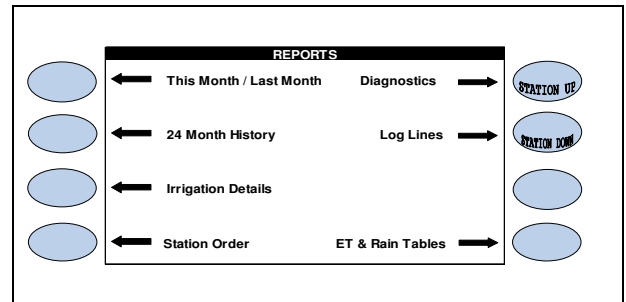



Figure 16

2.  Press the **ET & RAIN TABLES** Menu key.

The ET & RAIN TABLE screen (Figure 17).

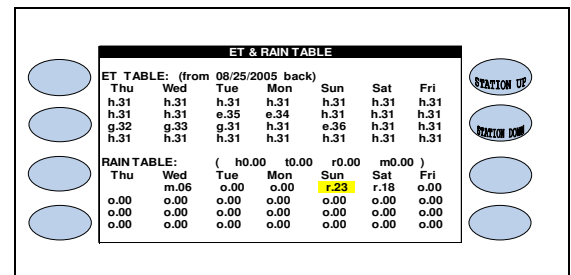


Figure 17

The ET & RAIN TABLE (Figure 17) is where the controller stores rainfall numbers (measured in inches). The numbers in this table can only be generated from a Rain Bucket wired to the controller, or shared, using the Calsense Command Center software, from a controller wired to a rain bucket. In figure 17 the rain table has a combination of numbers, the letter next to the value indicates what the value represents:

- o** – **Original**, this value is zero (no usable rain), it has no effect on irrigation run times.
- m** – **Below minimum**, the below minimum value is measured rain but it is not enough to offset irrigation run times.
- r** – **Usable rain**, this value is rain that is used to offset irrigation run times.
- s** – **Shutdown**, this means that irrigation was stopped due to rain polling being shared with this controller.

The usable rain in the Rain Table is used to reduce each station's irrigation run times. The amount of time each station is reduced is determined by the precipitation rate of each station and the amount of usable rain. Usable rain in the Rain Table is determined by settings programmed at the Rain Bucket setup screen at the controller. When scheduled irrigation is set to occur, the controller will use up the usable rain first by the amount of time scheduled to irrigate for each station. Until the usable rain is used up, there will be no irrigation. This will continue until all of the rain is used up at which time the irrigation will start again.

3.



Press the **BACK** key twice to return to the MAIN MENU screen.



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