CirrusPRO™ New Features Guide
for build 4.7

Important Database Changes:

With 4.7, we have migrated the database engine from Microsoft SQL to PostgreSQL, which allows for much larger database sizes. The process to updating from 4.6 to 4.7 will take longer than usual as PostgreSQL will be installed and your 4.6 database will be converted.

Note that at this time, it will not be possible to "restore" any previous database once you have migrated to 4.7. Only GSP will be able to help if you need to restore a database that was created in a version prior to 4.7.

Decoder Diagnostics from the Map:

In 4.7, it is now possible to conduct Decoder diagnostics directly from the Map. This can be done for a single station, or multiple stations via the Multi-Select tool.

In this example, 4 stations were selected on the green.

Next, hit the "Diagnostics" icon from the Multi-Select tool.

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1
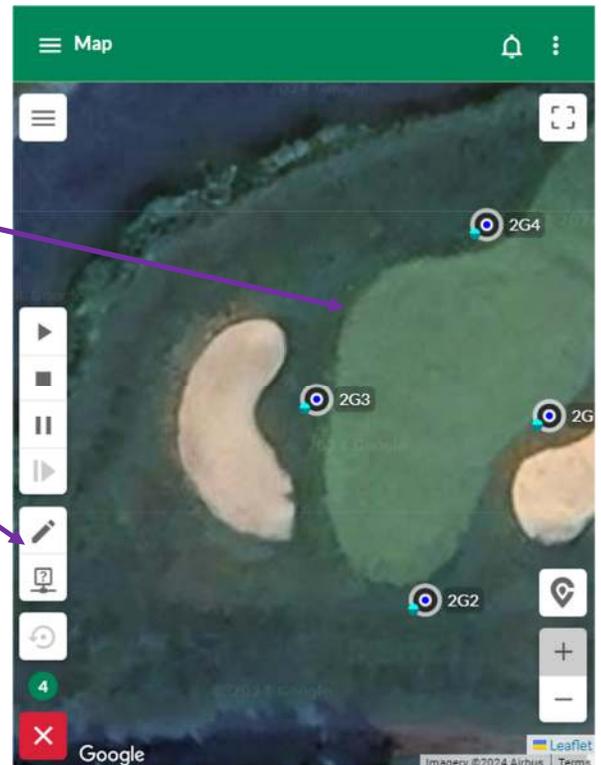
Then, select "Run Test". A message will pop-up saying that this will cancel all irrigation. Click OK for the test to start.

Results then show up with detailed information. Any issue is listed at the top.

Station Diagnostic - 2G1, 2G2, 2G3, 2G4

On/Off Test ▾   RUN TEST   CANCEL TEST

Tested: 4 / 4   ✓ **3** PASSED   ? **1** NO FEEDBACK   Last Updated 2024/09/19 15:08

Result		Location		Interface		Resting current (mA)		In-rush current (mA)		Holding current (mA)		Hole		Area	
?		2G4		SDI in office (COM2)		9		14		9		Hole 2		Greens	
✓		2G1		SDI in office (COM2)		13		567		26		Hole 2		Greens	
✓		2G2		SDI in office (COM2)		12		562		26		Hole 2		Greens	
✓		2G3		SDI in office (COM2)		13		563		26		Hole 2		Greens	

Cancel   Close

Decoder Interface Current Graph:
A Decoder Interface Current Graph is now available in the Diagnostics section, under "Decoder Interface Diagnostics". You simply need to click on the " 〜 " symbol under the "Show Graph" column. This will bring up a pop-up showing the current mA draw from the interface.

To view the live graph, simply click here:

This is the "Graph View" window:
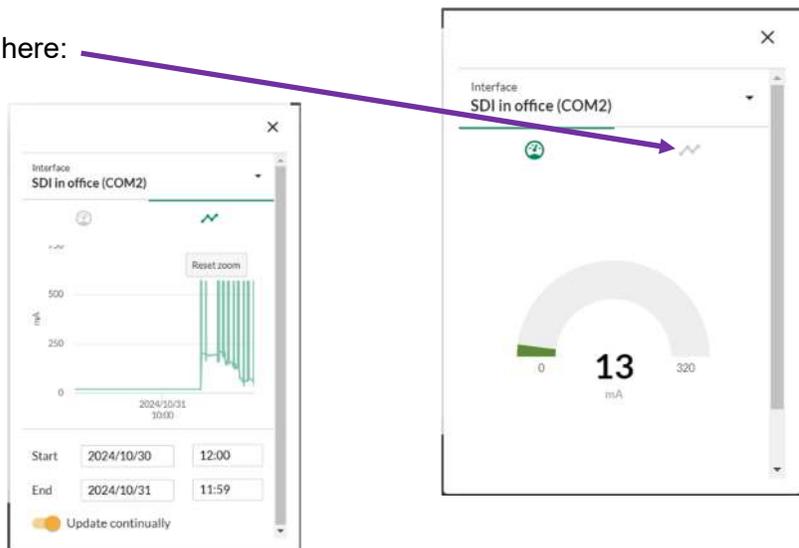
If your system had some activity in the selected period, then a current graph will be displayed. It is best to limit this period to 3 days or less.

Select the period here:

Interface
SDI in office (COM2)

Reset zoom

mA

500

250

0

2024/10/31
10:00

Start   2024/10/30   12:00

End   2024/10/31   11:59

Update continually
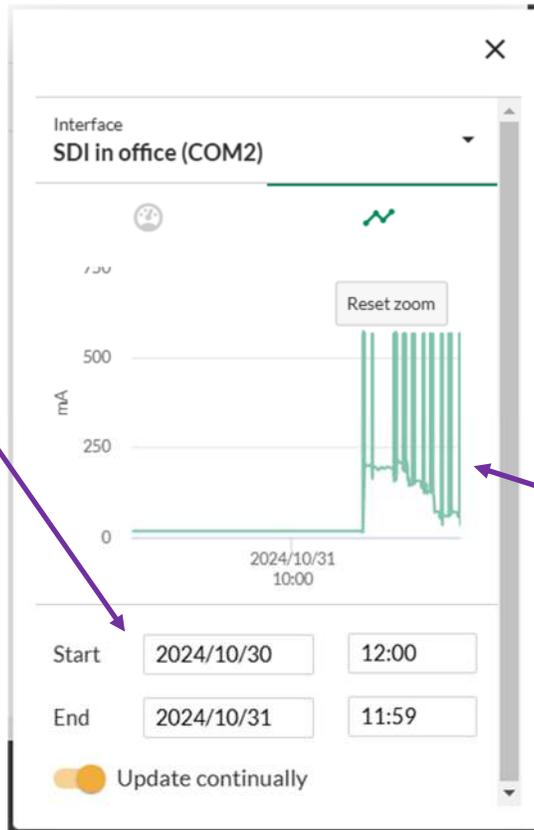
"Zoom in" with your fingers or select an area of the graph with the mouse and then "Reset" the zoom if needed.

Cycle & Soak Override & Vertical Progression:

When looking at the program options, there are two new options available: "Ignore Cycle & Soak" as well as "Vertical Progression".

Cycle & Soak override is self-explanatory.

Vertical Progression is where CirrusPRO will run as many stations on a given hole before starting stations on the next hole (see detailed explanation on the next page).

Start Days*
Week Days

Su M T W Th F S

Program Start Times

Click to add

21:00

☑ Enabled
☐ Ignore System Water Budget
☐ Ignore System OFF
☑ Ignore Cycle & Soak
☐ Forced Progression
☑ Vertical Progression

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3

To better understand Vertical vs. Horizontal irrigation, let's use the view from the Activity/Active page. Holes are displayed on the top and stations on the left.

By default, CirrusPRO will run a program "horizontally", meaning that it will prioritize running one station per hole for as many holes as possible (based on Flo-Manager). So, for this Greens program, it will start 7G1, 8G1, 9G1, etc. until Flo-Manager reaches a restriction. This spreads the usage of water across the entire property and is easier on the piping network as the maximum flow per pipe is not likely to be reached.

Example: Horizontal Irrigation (default)
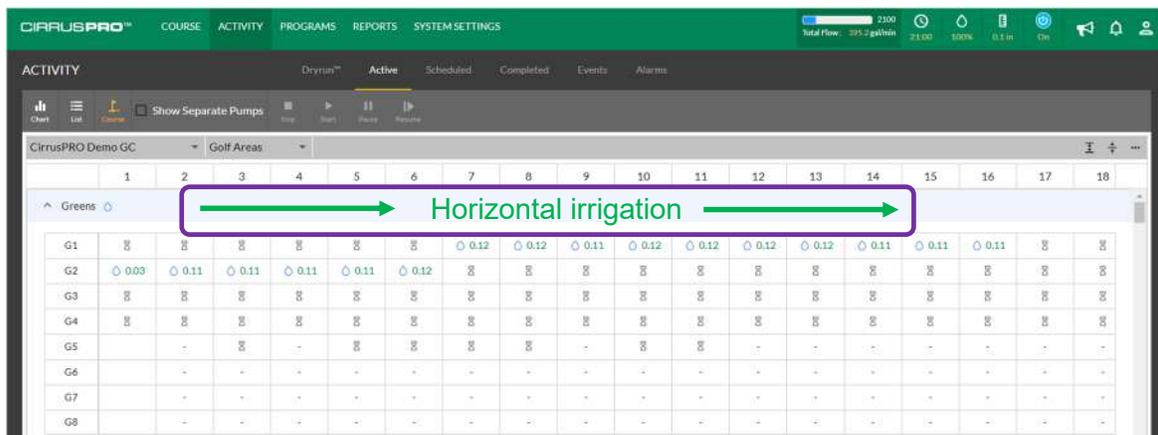
Example: Vertical Irrigation

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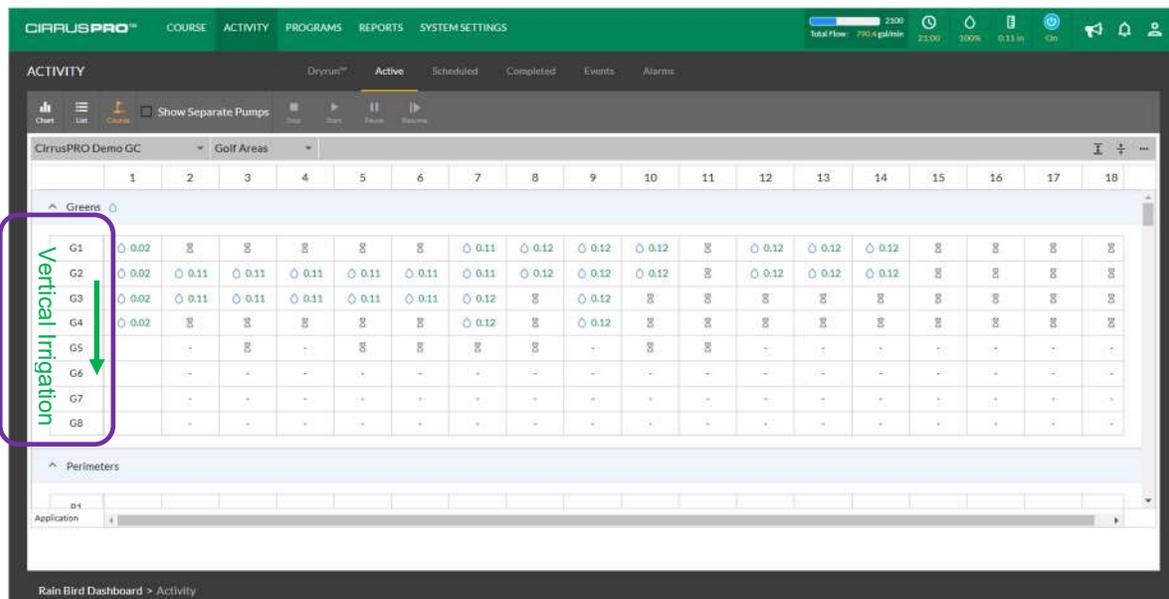
With vertical irrigation, CirrusPRO will run as many stations as possible on a given hole until Flo-Manager restricts the next station on the hole before starting stations on the next hole. This method may seem like a more logical approach; however, it maximizes the flow in the pipes on a given hole almost every time.

Note that the Programs side panel also shows "Forced Progression" but that it is grayed out. This feature is being worked on and should be available in 4.8.

Programs Toggle Switches:
From the program screen, it is now easy to toggle programs on or off with a toggle switch.
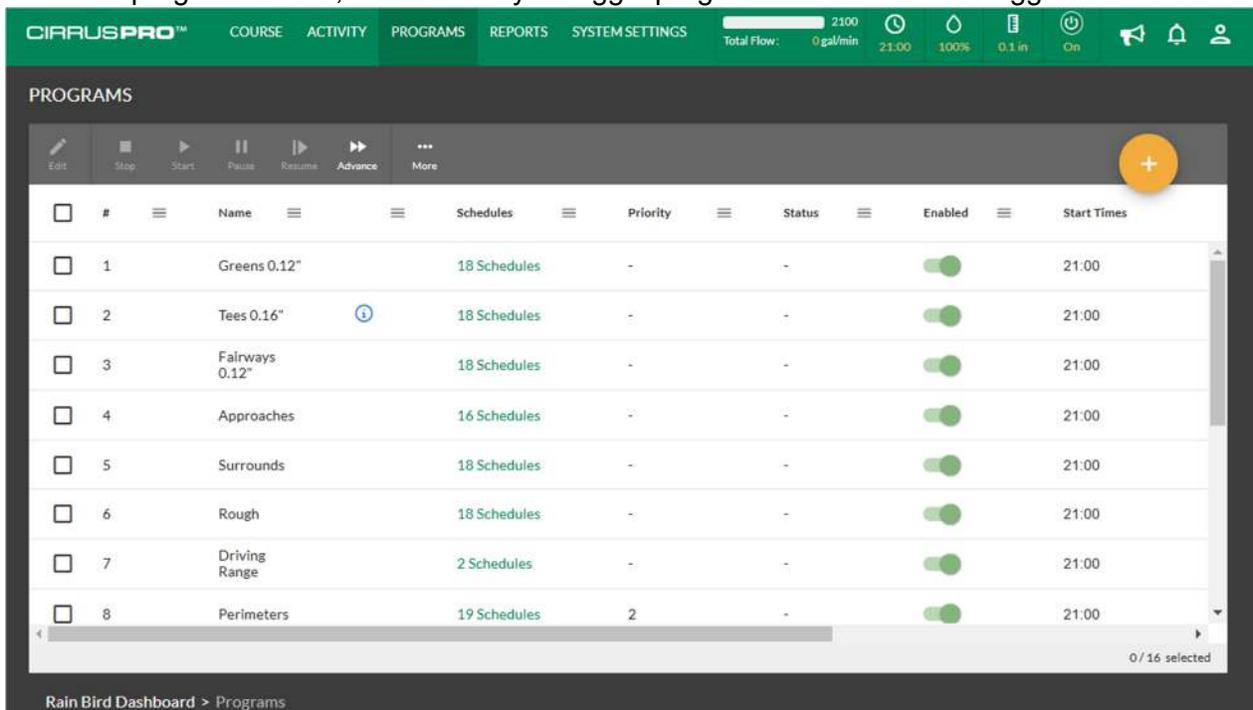
"Block" stations on the map:
With version 4.7, it is now possible to add Block stations to the map. In this example, station 1BU1 has been defined has having 3 rotors:

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5
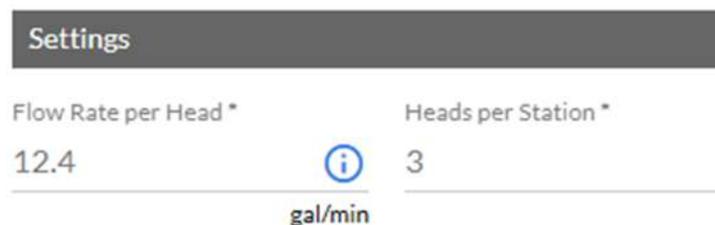
These 3 rotors will now show under 1BU1 in the Map Menu under "Stations by Holes" and each rotor can now be placed on the map. As soon as you place one of the "child" rotors to that station, the station symbol will change to a valve symbol.

1BU1 with its 3 block rotors:
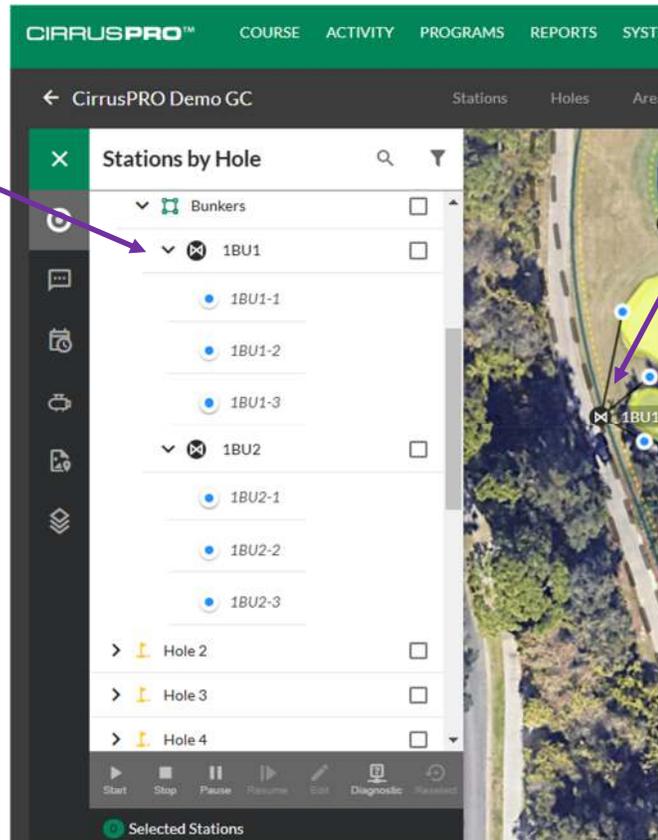
1BU1 with its 3 block rotors on the map

When 1BU1 is running, an animation will show water flowing in the lines linking the rotors to the valve as well as pulsating rotors.

If you do not want to show the block rotors on the map, you can always turn them off under Map Menu / Common Layers / Stations

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6
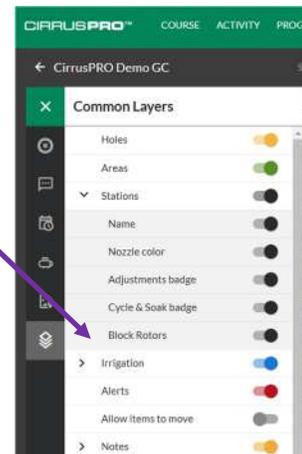
Weather Related Additions:

1. Weather History Totals pop-up:
   - When going to the Weather Report section, a new summary pop-up will appear in the upper right area of your screen.
   - On a mobile device, you need to click on the symbol to see it

   - This pop-up provides a quick summary of the filtered data. If you change the date range, the data in this summary will be updated.
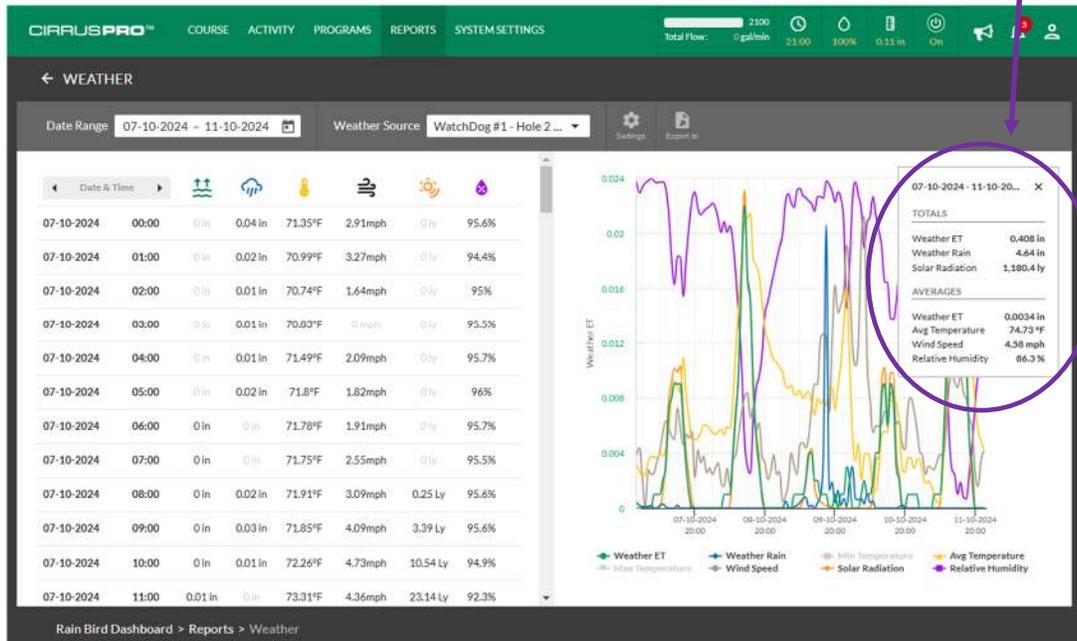
On a mobile device, you can view the weather summary by tapping on this icon:

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7
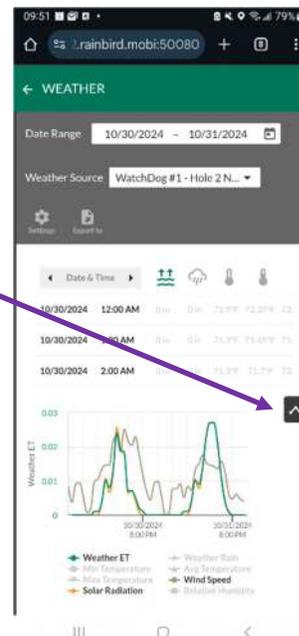
2. View data Daily or by Day & Time:
In the weather report, you can now select to view data with only a daily sum rather than only displaying the data with hourly amounts by selecting how you want to display the information here:

Example showing data with Date & Time
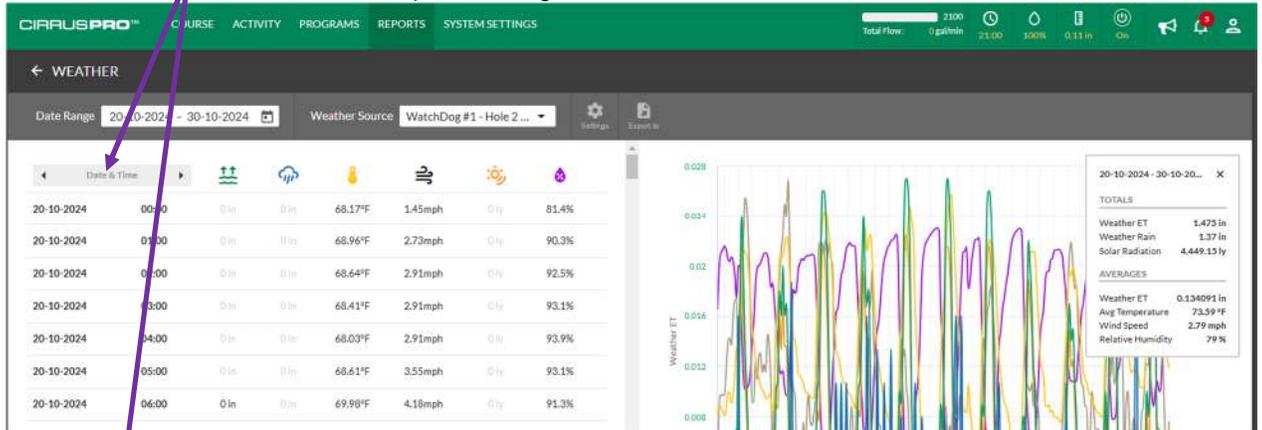
Example showing Date only
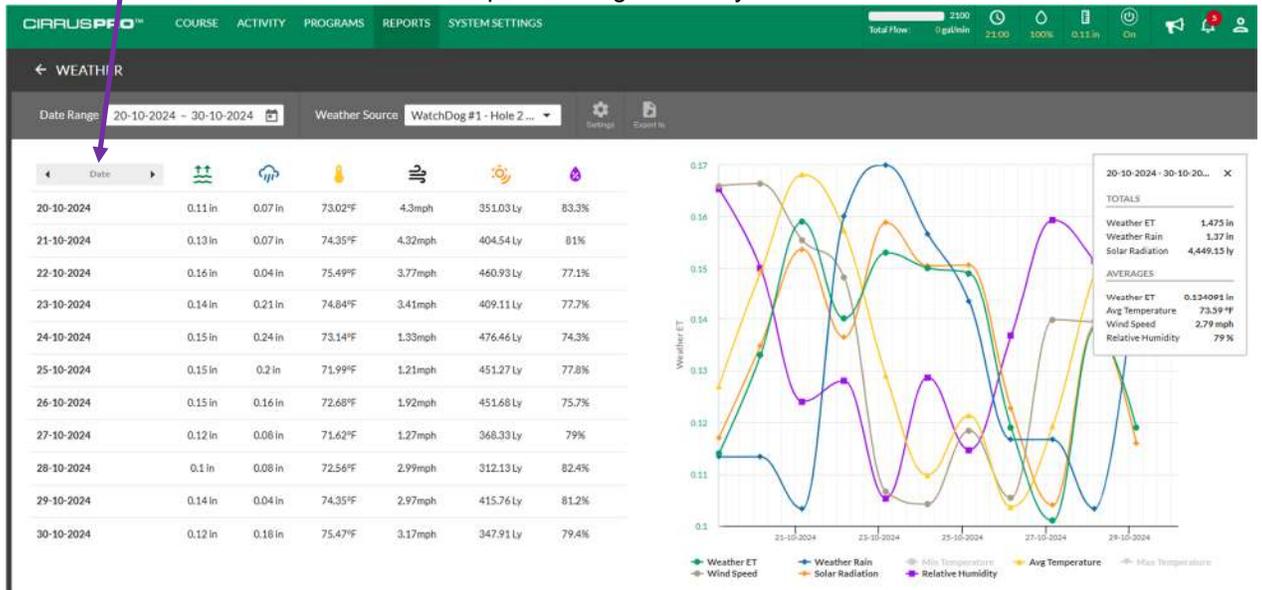
3. View the Last 24 Hours:
   When choosing the date range, you now can select the last 24 hours from the side list:
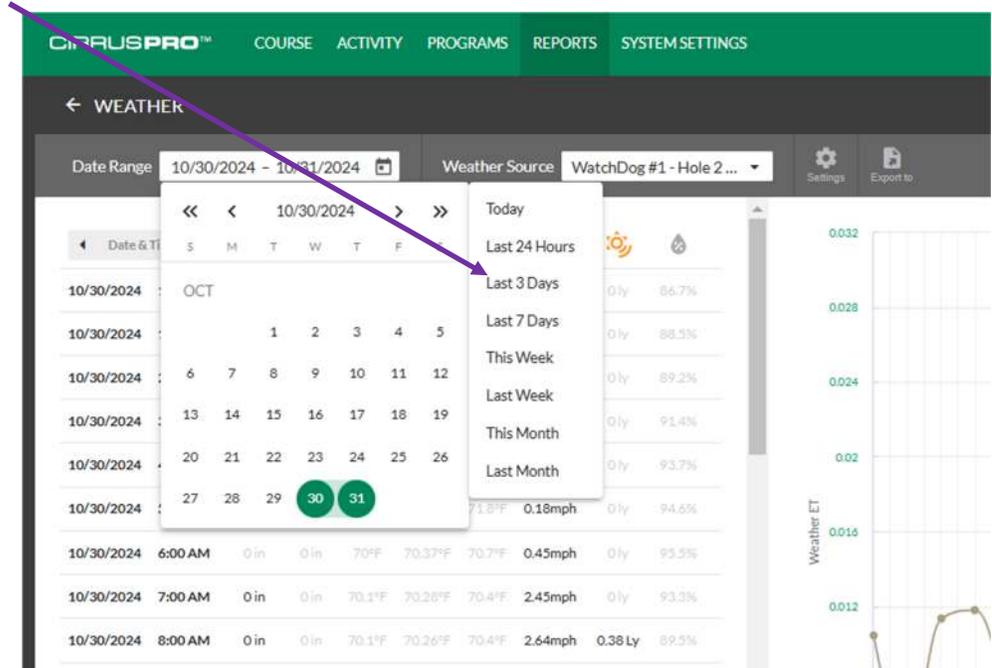
"Resolved" Notes available at the station level:
With version 4.7, it is now possible to view resolved Notes from the station level by clicking on the Notes icon in the station table and then selecting the "Show resolved" option:

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9
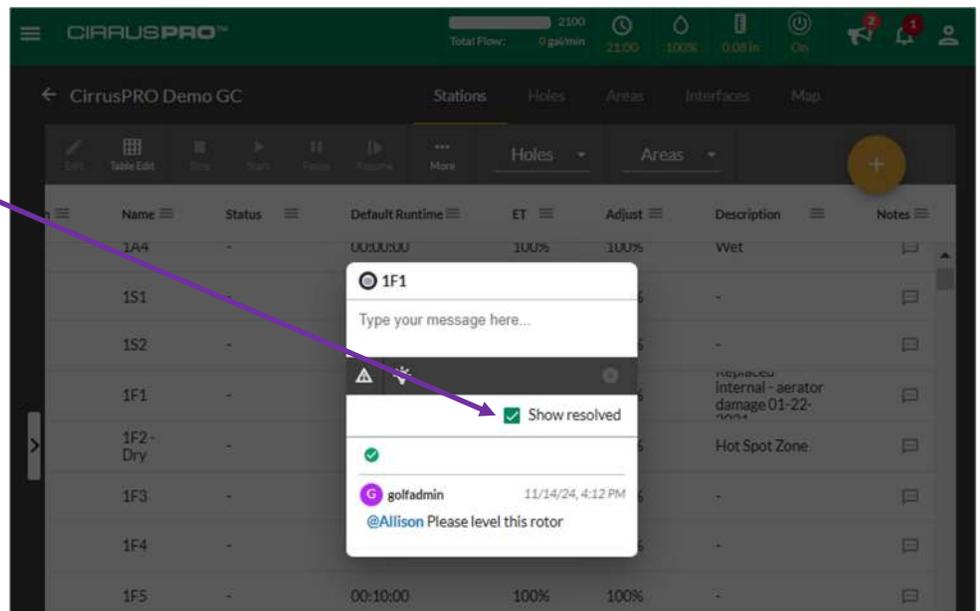
Larger and improved side panels:

The side panels that open when editing data has been improved and made larger for added visibility and to show more data in the same screen. Note that the size will vary based on the screen size.

Station side panel in build 4.6

Station side panel in build 4.7

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10

Flo-Manager integration with the map:

A new icon has been added to the map menu allowing you to see the Flo-Manager tree and select different components of the Flo-Manager such as Pumps, branches, Flo-Zones, etc. When you make a selection, all the stations included in the selected feature will show a halo around then, making it easy to identify stations that are associated with this feature. As an example, by selecting Branch B14, all the stations on Holes 1 and 2 should be highlighted, but we see that there are some stations on Hole 2 that have not yet been assigned to a Flo-Zone.
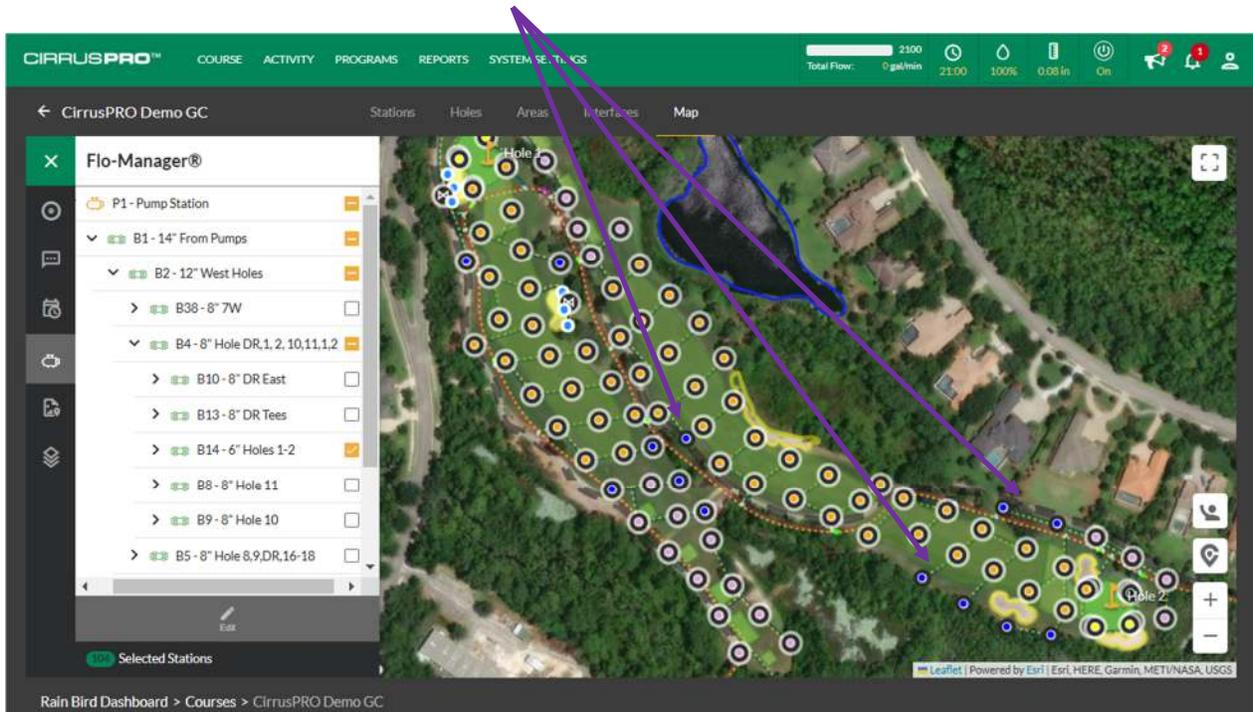
Check box to enable/disable grouping by Sub-Areas in the Map Menu:

When in the "Stations" section of the Map Menu, it is now possible to choose between viewing the stations either grouped by sub-area, or not grouped by clicking on the "filter" icon and selecting the preferred option.
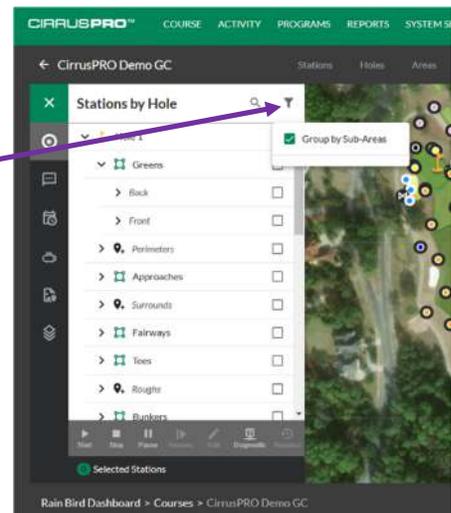
Indicator for disabled Schedules or stations without runtime:

A new icon has been added to the programs screen to alert the user of disabled schedules or stations without a runtime.

Hovering over the icon will display a pop-up indicating what the user needs to pay attention to.

Note that this icon may not display on small screens.
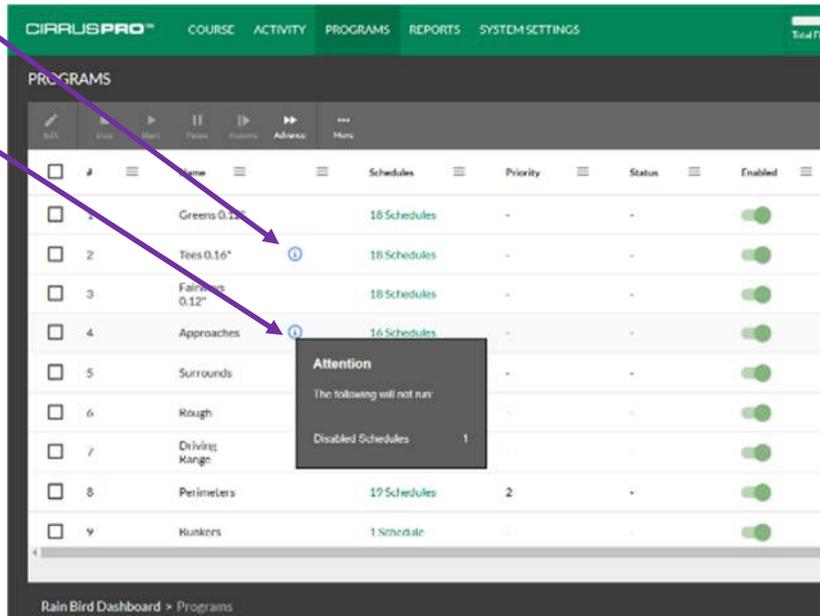
Ability to move stations from one interface to another:

In build 4.7, it is now possible to move stations from a satellite system from one interface to another interface of the same type (hardwired to hardwired, LINK to LINK). It is also possible to move Decoder stations from one Decoder interface to another.

To do this, you must navigate down to the stations via the "Interface" menu, then select the stations to me moved and click on the "More" menu to see the "Change Interface" menu.
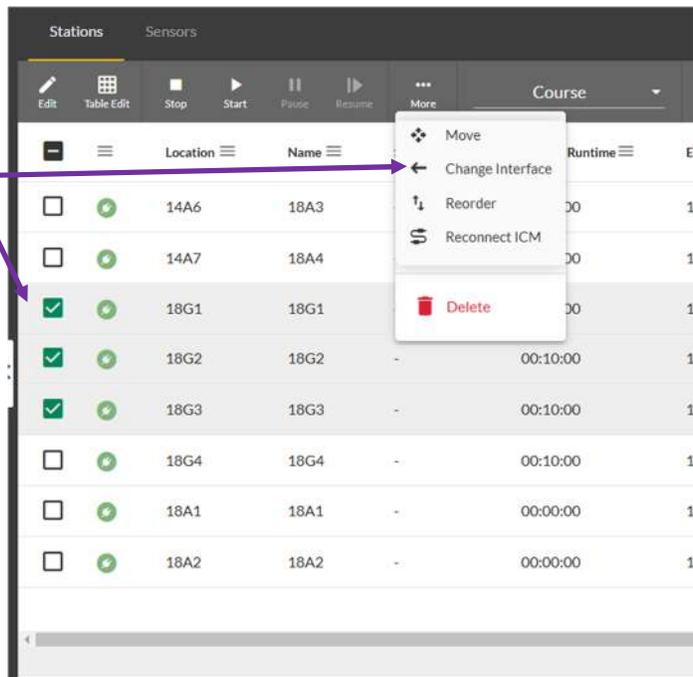
View Flow and Pressure in the Pump Widget from any Rain Bird pump station:
The Pump Widget now supports pump stations connected via MCA or Pump Manager 2, offering enhanced flexibility and functionality.

For MCA connections, simply click the three dots in the top-right corner, navigate to Settings, enter your credentials, and save. Once completed, close the settings, and you'll be able to select your pump station to monitor live flow and pressure data effortlessly.
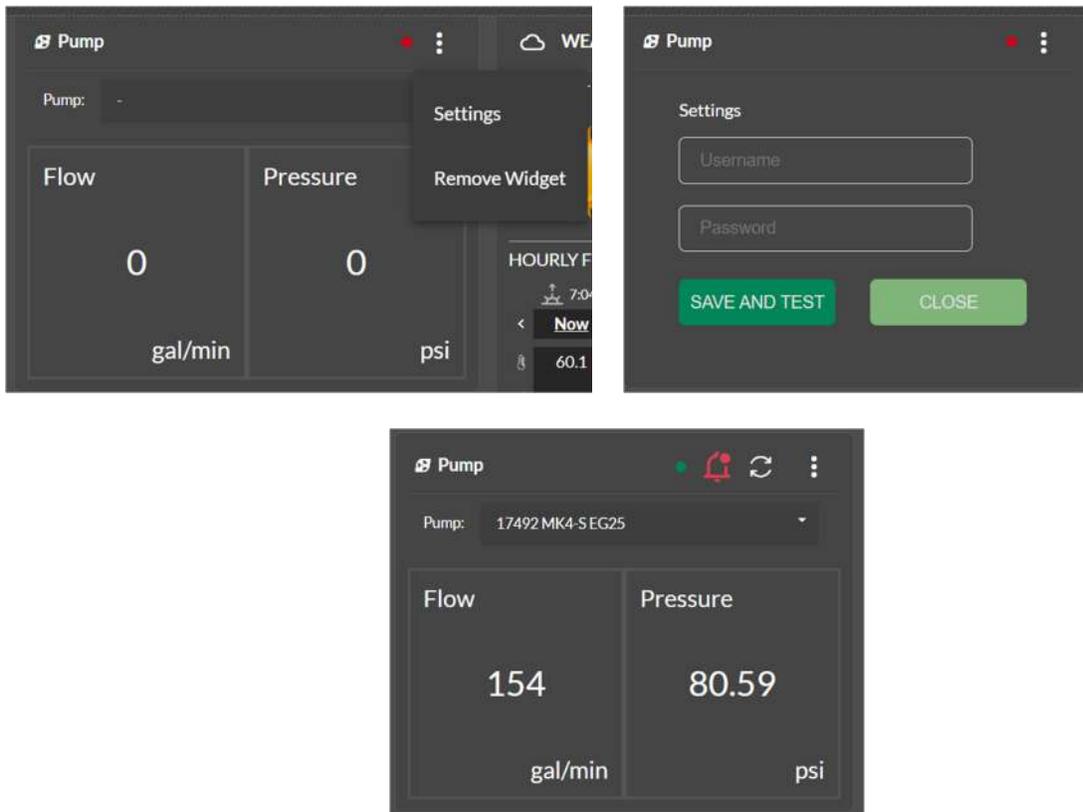
To view live flow and pressure data from your Rain Bird pump station connected via Pump Manager 2, ensure that Pump Manager 2 is installed on the same computer as CirrusPRO. After installation and connection, simply add the Pump Widget, select the drop-down menu, and your pump station will appear for easy monitoring.