



IQ4 Diagnostics

Using Diagnostics in IQ4

Overview

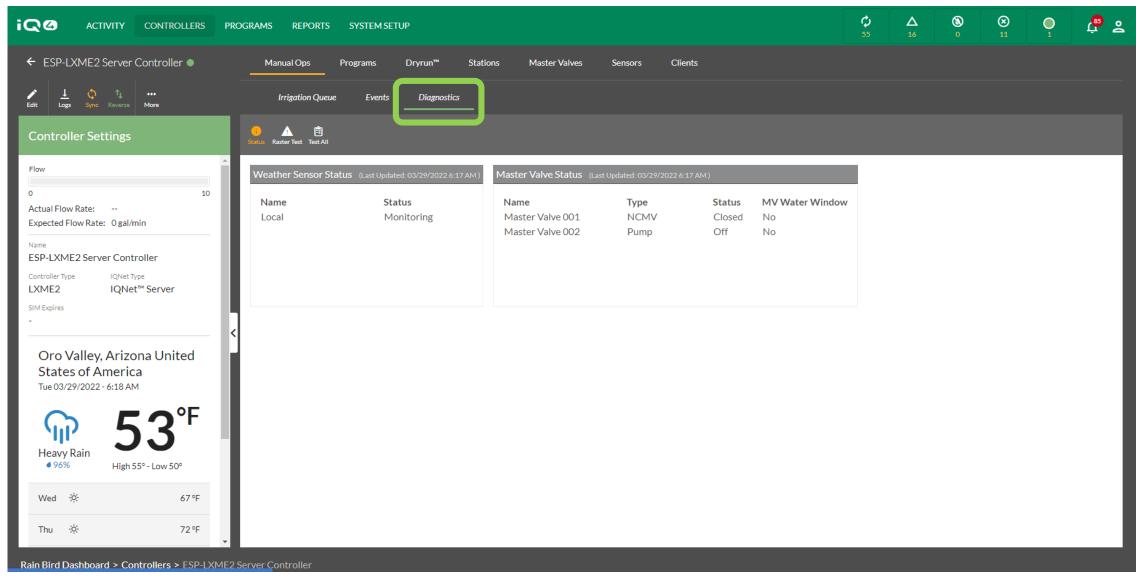
IQ4 Diagnostics allows users to initiate and view diagnostic results without visiting the controller. Each IQ4 controller type has a different set of diagnostics depending on the controller capabilities.

Diagnostic tools are available through the Manual Ops tab in IQ4. It is best practice to connect to a controller first before using diagnostic tools to obtain best results.

This training will cover each controller type and the diagnostic tools for each.

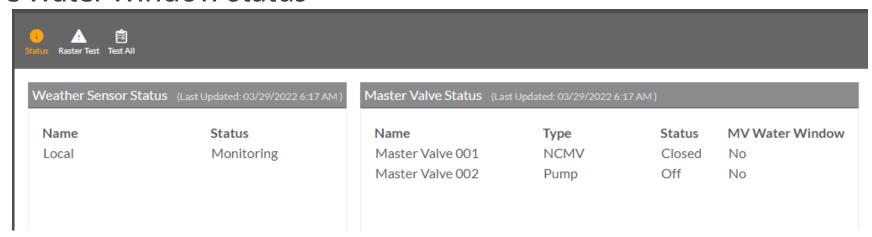
Learned Flow is a common feature across all controllers. It is part of the Manual Ops page

ESP-LXME2 Diagnostics Diagnostics for ESP-LXME/ESP-LXME2 Controllers

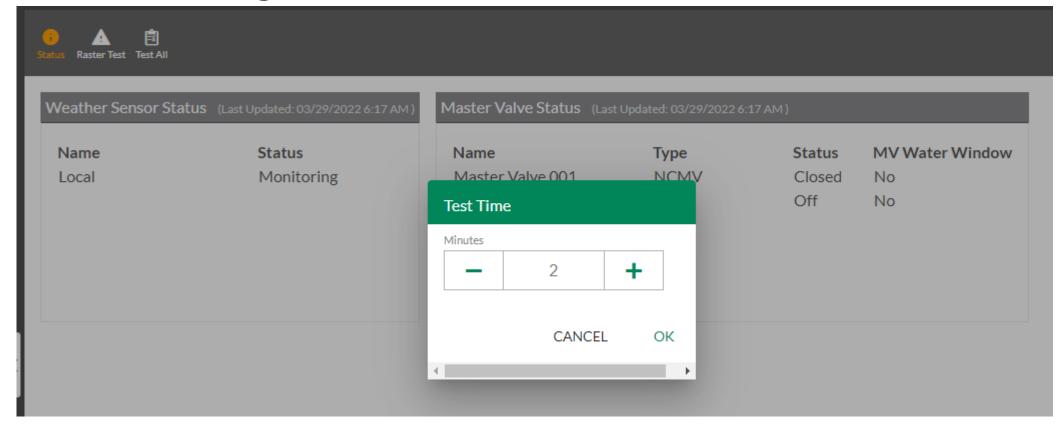


The Intelligent Use of Water™

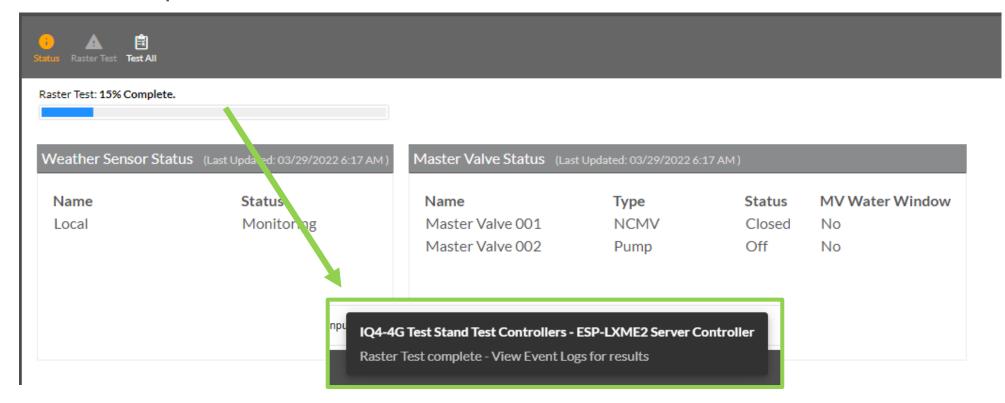
- Select the Diagnostics tab after connecting to the controller on the Manual Ops -> Irrigation Queue tab
- Displayed:
 - Local Sensor status Monitoring or Preventing
 - Manual Valve status Master Valve Type, Open/Closed/On/Off status and Master Valve Water Window status



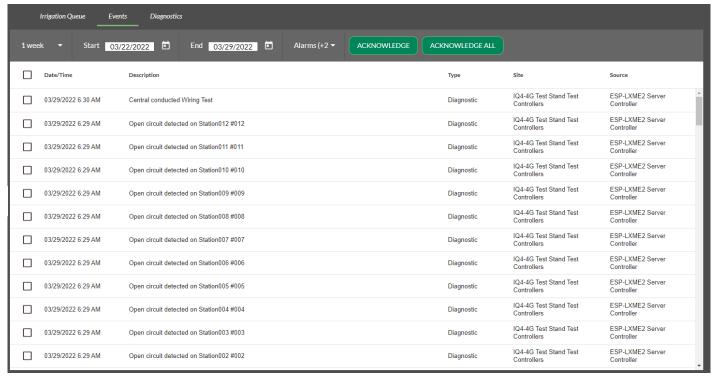
Test All – click this button to run a timed test of all stations (i.e., for a 2-minute walk through of all stations)



- RASTER Test* click this button to run a RASTER test of all stations
 - All irrigation will be stopped, each station will be checked for continuity and results displayed
 - * RASTER = **Ra**pid **S**tation **Te**st **R**outine

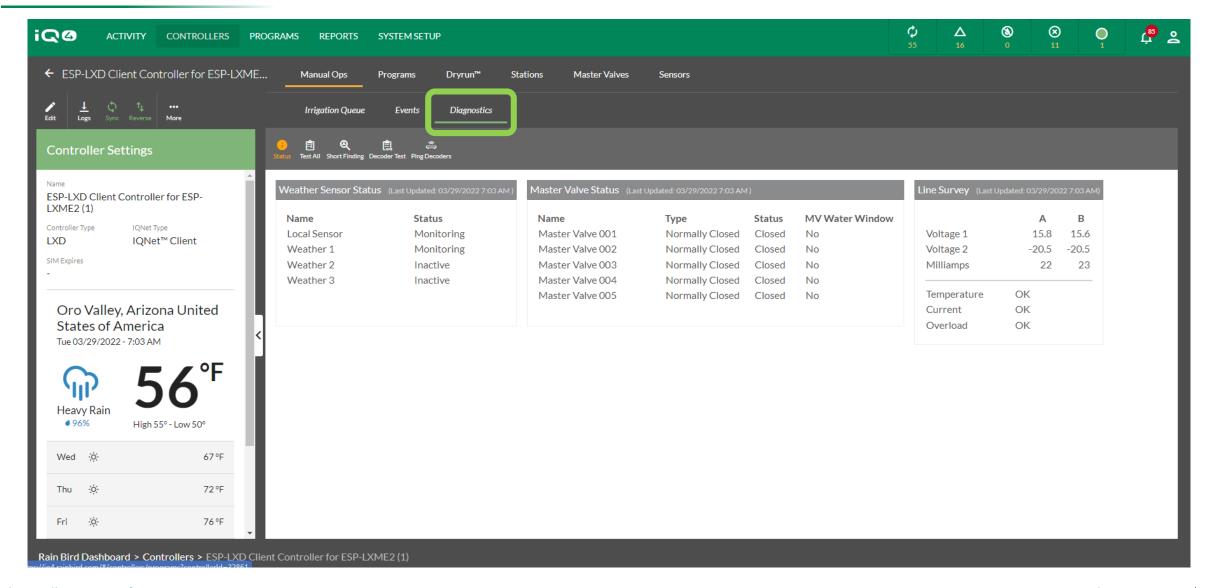


- RASTER Test results
 - Click on Logs
 - Results will be displayed in the Events log -> Diagnostics selection 2 to 15 minutes after the test is complete

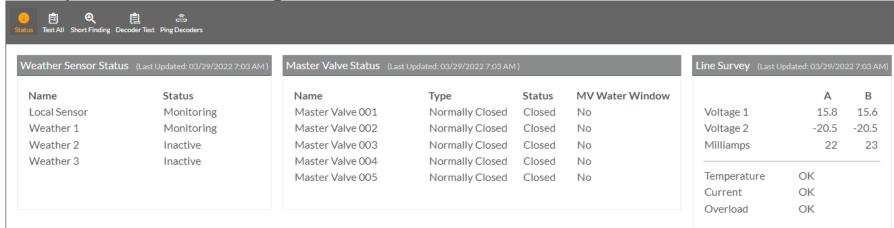


ESP-LXD Diagnostics

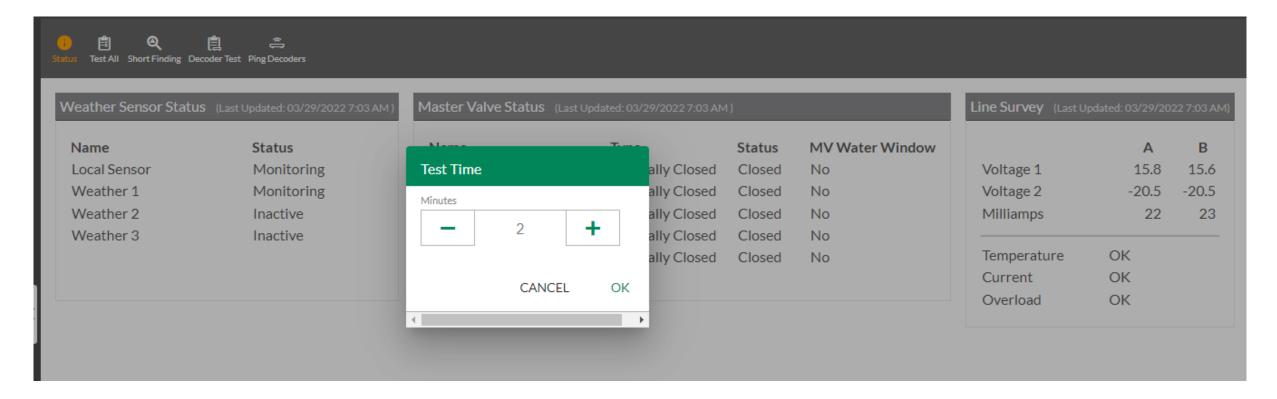
Diagnostics for ESP-LXD Controllers



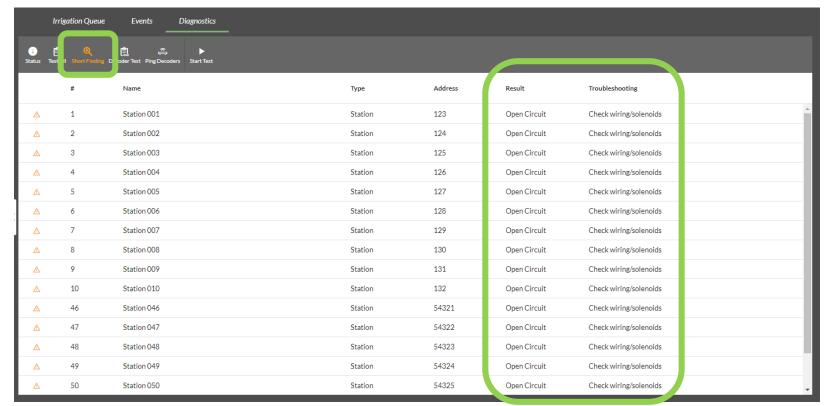
- Select the Diagnostics tab after connecting to the controller on the Manual Ops -> Irrigation Queue tab
- Displayed:
 - Local Sensor status Monitoring or Preventing
 - Manual Valve status Master Valve Type, Open/Closed status and Master Valve Water Window status
 - Line Survey results Voltage, Current and Conditions



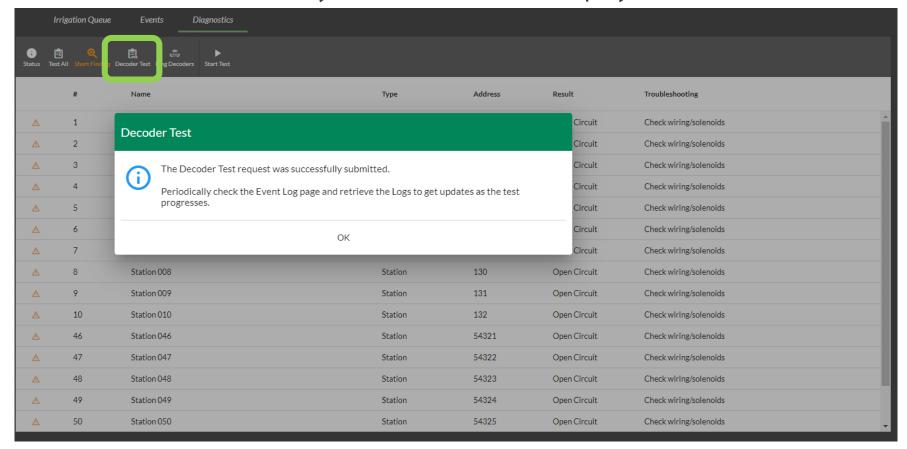
Test All – click this button to run a timed test of all stations (i.e., for a 2-minute walk through of all stations)



- Short Finding Test click this button to run a Short Finding test of all stations
 - All irrigation will be stopped, each station will be checked for continuity and results displayed

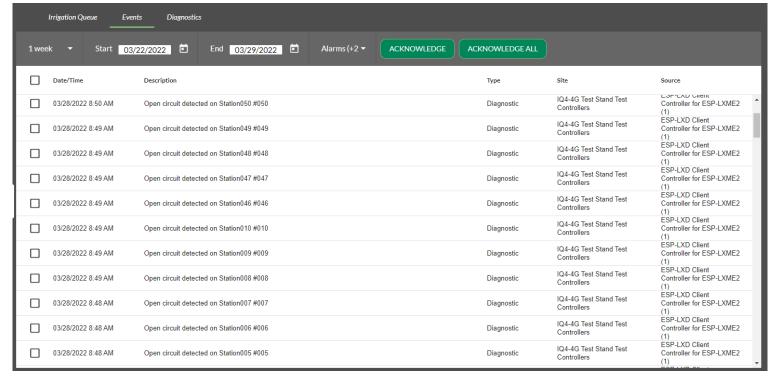


- Decoder Test
 - Decoder Test will check continuity of all decoders and display results

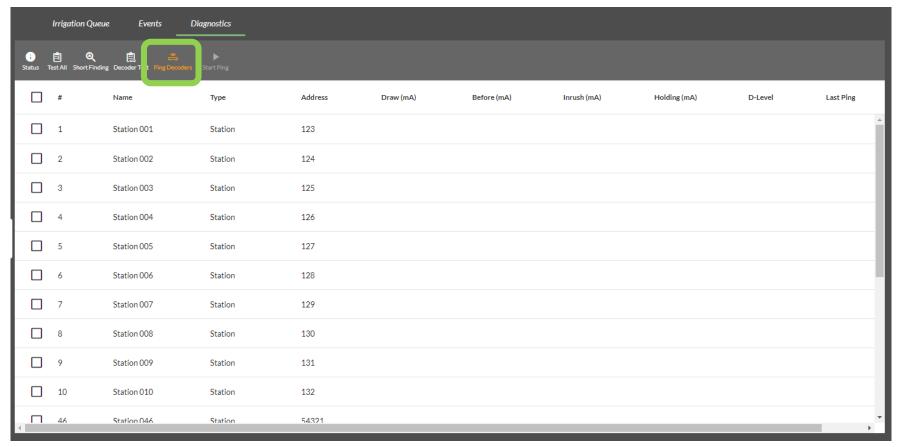


- Decoder Test
 - Click on Logs

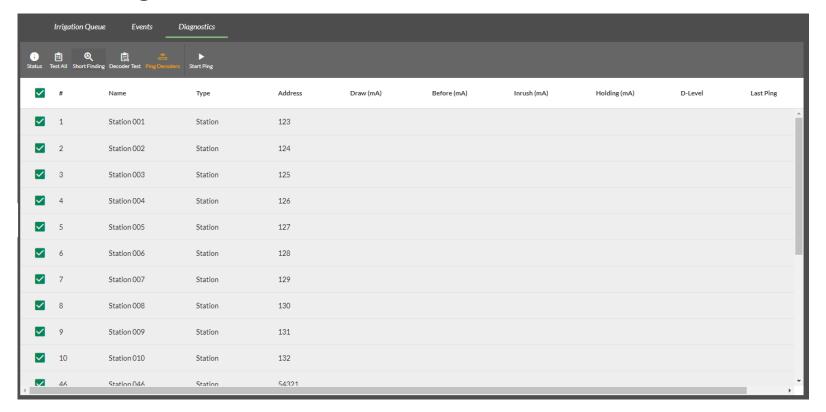
 Results will be displayed in the Events Log -> Diagnostics selection 2 to 15 minutes after the test is complete



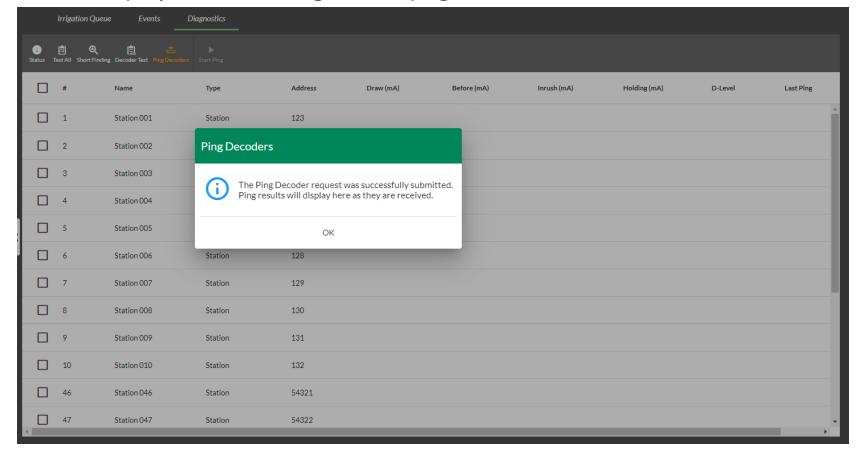
- Ping Test
 - Ping Test will stop irrigation, check continuity of selected decoders and display results



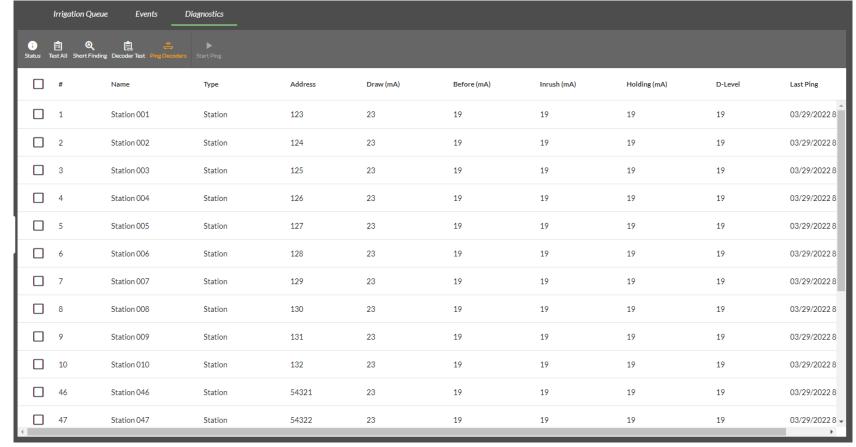
- Ping Test
 - Select the Stations (decoders) that are to be tested
 - Click on Start Ping



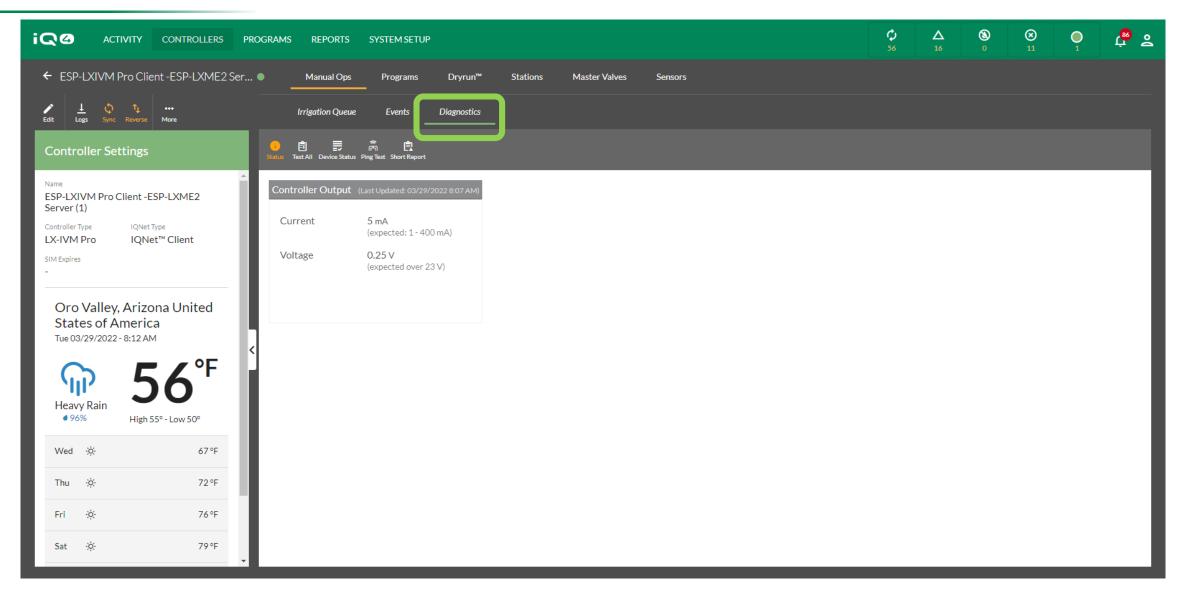
- Ping Test
 - Results will be displayed in the Diagnostics page 2 to 15 minutes after the test is complete



- Ping Test
 - Results will be displayed in the Diagnostics page 2 to 15 minutes after the test is complete



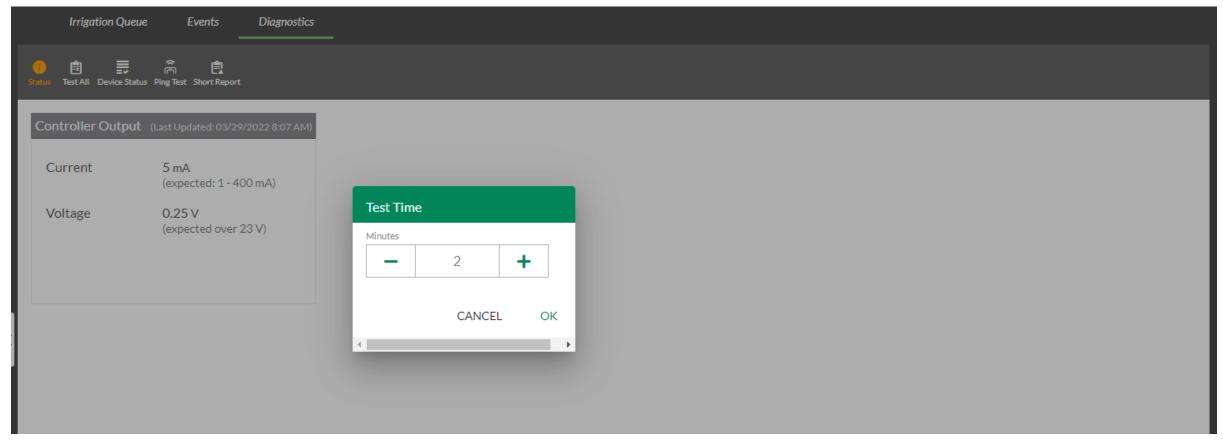
ESP-LXIVM Diagnostics Diagnostics for ESP-LXIVM/LXIVM Pro Controllers



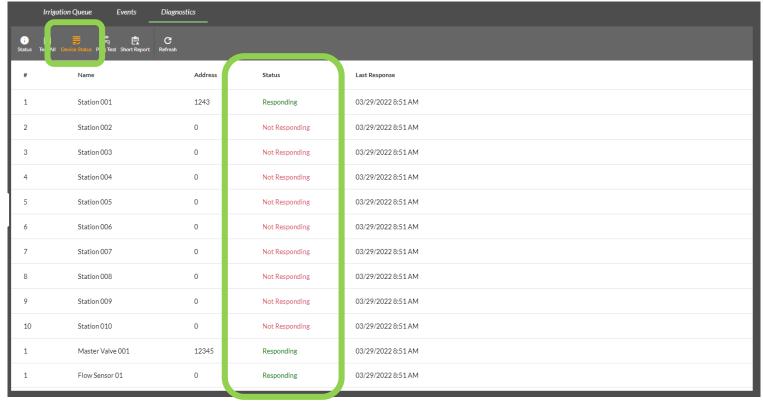
- Select the Diagnostics tab after connecting to the controller on the Manual Ops -> Irrigation Queue tab
- Displayed:
 - Controller Output Voltage, Current and expectations



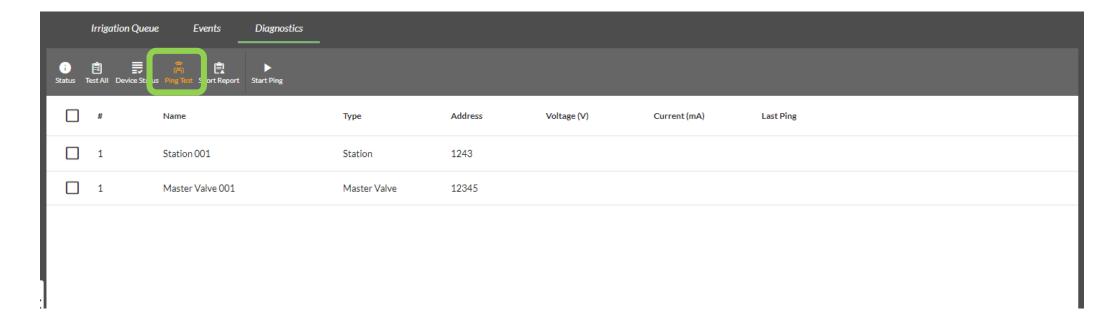
• Test All – click this button to run a timed test of all stations (i.e., for a 2-minute walk through of all stations)



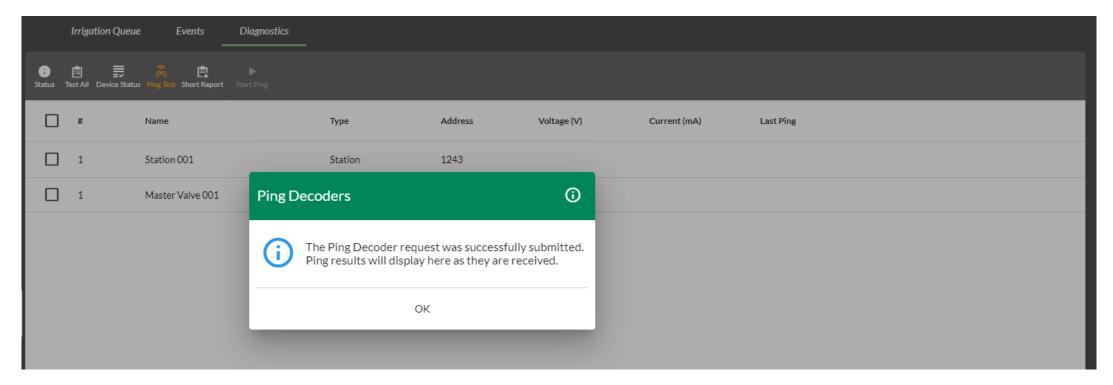
- Device Status click this button to display a list of all stations responding and all stations not responding
 - All irrigation will be stopped, each station will be checked for continuity and results displayed



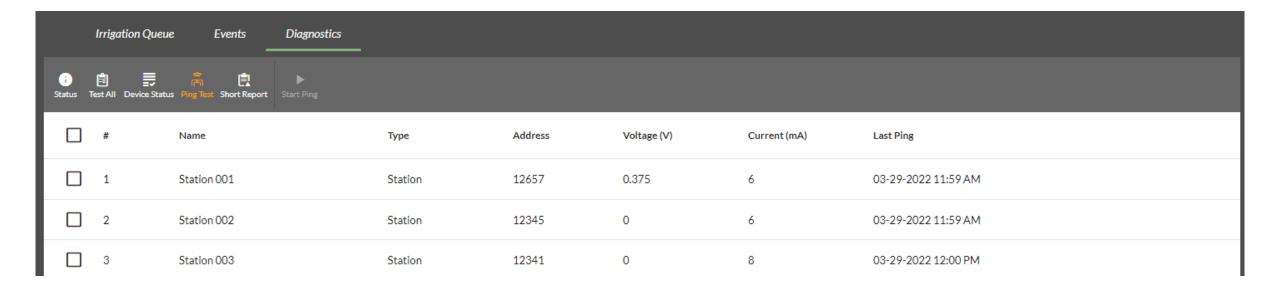
- Ping Test
 - Ping Test will stop irrigation, check continuity of selected decoders and display results



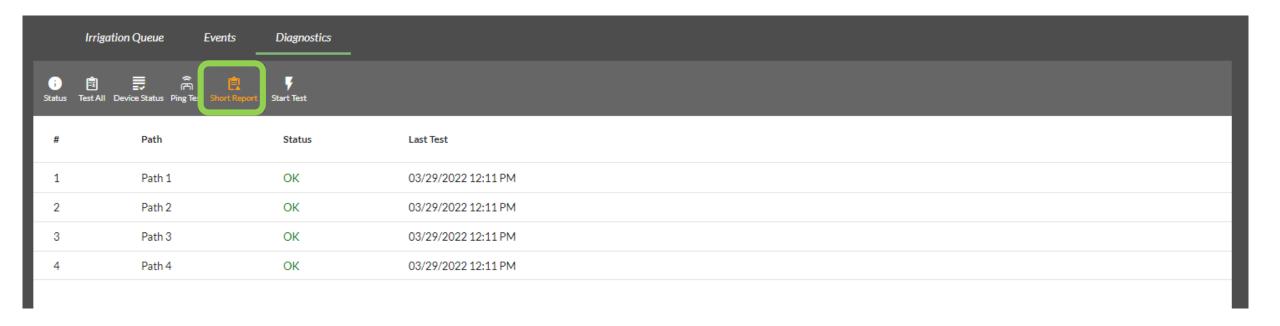
- Ping Test
 - Select the Stations (decoders) that are to be tested
 - Click on Start Ping



- Ping Test
 - Results will be displayed in the Diagnostics page 2 to 15 minutes after the test is complete



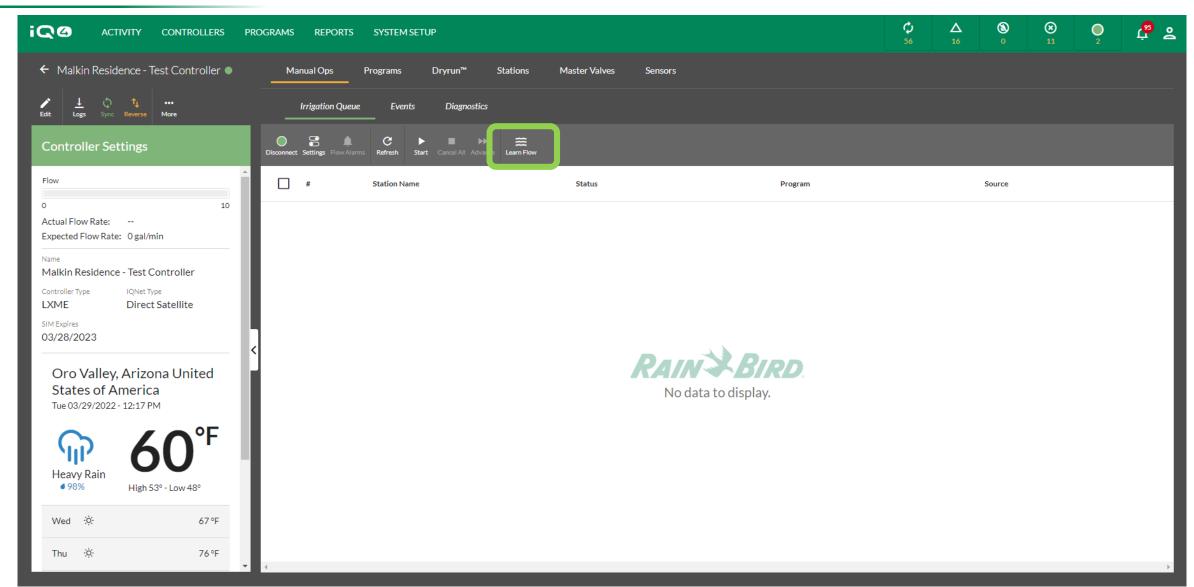
- Short Report
 - Short Report will check continuity of all 2-wire paths and display results



Learned Flow

Learned Flow Feature for all ESP-LX Controllers

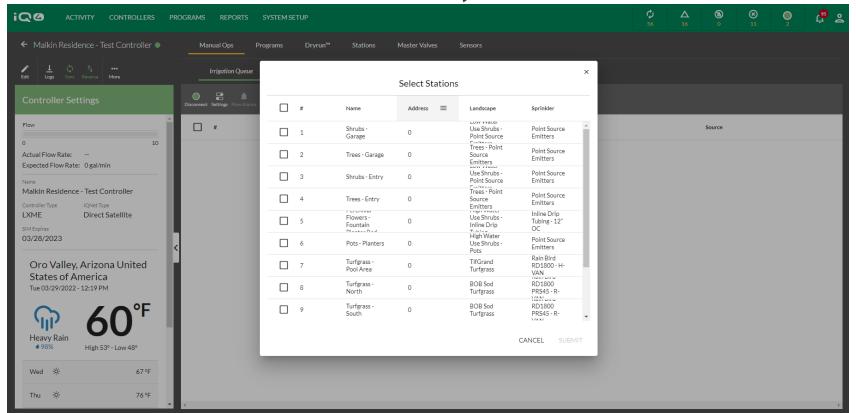
Learned Flow Feature – Irrigation Queue Tab



Learned Flow Feature - Irrigation Queue Tab

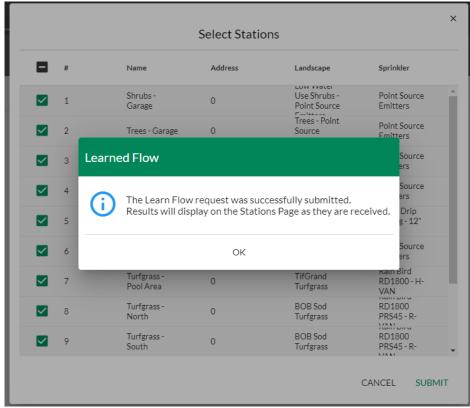
Learned Flow

Learned Flow will run each selected station for 2 to 4 minutes to determine the average flow. These
values are saved into the controller data and relayed to IQ4



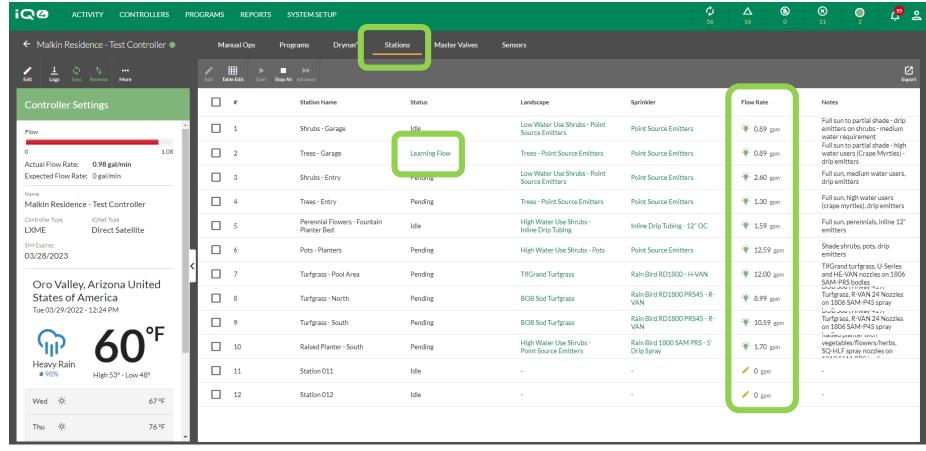
Learned Flow Feature - Irrigation Queue Tab

- Learned Flow
 - The Learned Flow results will be displayed on the Stations page with a * 12.59 gpm



Learned Flow Feature - Irrigation Queue Tab

- Learned Flow
 - The Learned Flow results will be displayed on the Stations page with a 👻 12.59 gpm



RAIN-S BIRD.