| **Test Name** | Pump Controller Restart |
| --- | --- |
| **Use Case Tested:** |  |
| **Test Description:** | This test verifies the pump controller sends a status message with the controllerRestart flag set when it boots. |
| **Pre-conditions** | * Pump Controller is unplugged. * Arduino IDE is running. |
| **Post-conditions** | * Controller Restart event added to the pump controller event log on the dashboard. |
| **Notes:** |  |

|  | **TEST STEP** | **EXPECTED TEST RESULTS** |
| --- | --- | --- |
|  | Plug the pump controller into a USB port. | A new COM port is available for the Arduino IDE to connect to. |
|  | Point the Arduino IDE to the Feather serial port and open the serial monitor. Wait for the pump controller to start. | The pump controller sends a status message with the controllerReset flag set to 1.  The dashboard shows a controller restart event in the event log. |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Data Table** | | | | | |
|  | **1** | **2** | **3** | **4** | **5** |
| [Data field 1] | [data set 1 input value for field 1] |  |  |  |  |
| [Data field 2] | [data set 1 input value for field 2] |  |  |  |  |
| [Data field 3] | [data set 1 input value for field 3] |  |  |  |  |

**Results**

10/09/2020

Passed.

09:03:28.516 -> 0.1.lora

09:03:28.516 -> setup() complete.

09:03:28.516 -> EV\_JOINING

09:04:48.864 -> EV\_JOIN\_FAILED

09:06:15.561 -> EV\_JOINED

09:06:15.561 -> Send initial status message.

09:06:15.561 -> LoRaWAN will encode and send this message: {'pumpRunning':0,'boreLowLevel':0,'softStartFail':0,'pumpOverload':0,'controllerRestart':1,'highPressure':0,'noFlow':0}

09:06:15.561 -> Sending status byte: 10

09:06:17.924 -> EV\_TXCOMPLETE (includes waiting for RX windows)