Connecting a BaseStation 3200 Irrigation Controller to a Munro Pump Station

May 3, 2016

Customer Service 1-866-294-5847

Baseline Inc.
www.baselinesystems.com

Phone 208-323-1634
FAX 208-323-1834
Toll Free 866-294-5847

©2016 Baseline Inc. All Rights Reserved.

Contents

Introduction **1**
Installing the Components **1**
Install the Pump Station 1
Install the BaseStation 3200 Irrigation Controller 1
Configuring the BaseStation 3200 Irrigation Controller for the Pump Stations **2**
Connecting a BaseStation 3200 Irrigation Controller to the Pump Station 2
Checking the BaseStation–Pump Station Connection Status 3
Viewing Pump Station Reports **4**
Pump Station Status Report 4
Pump Station Pressure Report 4
Pump Station 60 Minute Pressure Report 5
Viewing Pump Station Messages **5**

Introduction

A BaseStation 3200 irrigation controller can communicate with as many as 8 Munro pump stations over a network. The connections can be a combination of wired Ethernet, cell modem, and Ethernet radios.

When the BaseStation 3200 irrigation controller is connected to the pump stations, the irrigation controller gathers and logs data from the pump stations. The irrigation controller also reports any active fault that occurs on the pump stations.

The BaseStation 3200 reports the following pump station data:

- System Pressure – reports the value every 3 minutes. At the end of the hour, gives the peak, average, and end-of-the-hour value.
- Active Fault – reports the value every 3 minutes. Only shows one active fault at a time. The pump stations can be configured to shut down when a fault occurs.
- Drive Status
- Current Output
- Frequency
- Total Runtime
- PID Feedback

Installing the Components

Install the Pump Station

- Install each pump station according to the instructions that came with the equipment.
- Install the network communication equipment for each pump station.
- Make sure the pump stations are powered up.

Install the BaseStation 3200 Irrigation Controller

- Refer to the BaseStation 3200 User Manual to install and set up the irrigation controller.
- If you are using network communication equipment with the BaseStation 3200, install that equipment according to the instructions that came with the equipment.
- Make sure the network communication equipment is powered up and connected.

Configuring the BaseStation 3200 Irrigation Controller for the Pump Stations

The Munro pump stations and the BaseStation 3200 irrigation controller communicate with each other over a network. In some implementations, a stand-alone network is established between the pump stations and the irrigation controller over an Ethernet cable, and this network does not need to be connected to the Internet. In other implementations, where the pump station is located too far away from the controller to be connected with an Ethernet cable, the pump stations and the irrigation controller can connect with cell modems or Ethernet radios.

If the pump stations and the BaseStation 3200 irrigation controller will connect to an existing network that is managed by a network administrator, you need to ask the admin to set up a static IP address for the pump stations. Also ask the admin for the Subnet Mask and the Gateway settings for the network. Use this information to connect the BaseStation 3200 irrigation controller to this network, and then you can connect the irrigation controller to the pump stations.

Note: If the BaseStation 3200 irrigation controller is already connected to BaseManager, the Subnet Mask, Gateway, and other Ethernet settings are common to both BaseManager and the pump station connections.

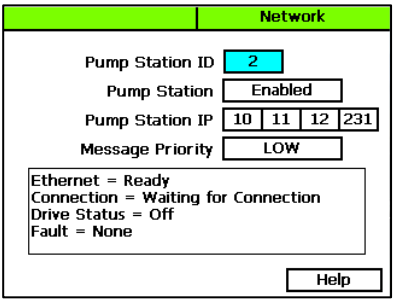
If the pump stations and the BaseStation 3200 irrigation controller will connect to a stand-alone network, make sure the communication modules in the pump stations and the BaseStation 3200 irrigation controller are powered up and communicating. Set up the static IP addresses on the pump stations. After the devices are on the network, you will connect the irrigation controller to the pump stations using the static IP address for each pump station.

Connecting a BaseStation 3200 Irrigation Controller to the Pump Station

After your pump station is powered up and connected to the network, you need to connect your BaseStation 3200 irrigation controller to the pump station.

IMPORTANT NOTE! If the BaseStation 3200 irrigation controller that you are connecting to a Munro pump station is already in service, make sure that the irrigation controller has been updated to the most recent firmware version. Refer to the BaseStation 3200 User Manual to find instructions for updating the irrigation controller firmware.

1. Get the **IP Address** from the pump station.
2. Make sure the BaseStation 3200 irrigation controller is connected to the same network as the pump station or to the Internet.
3. On the BaseStation 3200 irrigation controller, turn the dial to the **Network** position.
4. Press the **Next** button until the **Pump Station Setup** option is highlighted.
5. Press the **Enter** button. The Pump Station screen displays.



6. In the **Pump Station ID** field, press the **+** button to set the ID to a number 1 through 8.

7. In the **Pump Station** field, press the **+** button to change the setting to **Enabled**.
8. Press the **Next** button to move to the first cell of the **Pump Station IP** field.
9. Press the **+** button to change the number to match the first set of numbers in the IP address of the pump station.

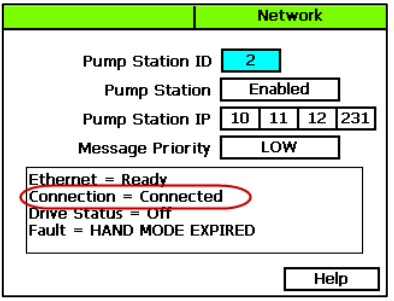
   Note: Press and hold the **+** button or the **–** button to rapidly increase or decrease the number in the field.
10. Complete the IP address by pressing the **Next** button to move to the next cell of the **Pump Station IP** field. Then press the **+** button to change the number.
11. Press the **Next** button to move to the **Message Priority** field, and then press the **+** button to set the priority that you want the pump station messages to have.
12. Repeat the procedure for each pump station that you are connecting the controller to. The BaseStation 3200 irrigation controller can communicate with up to 8 Munro pump stations over a network.

    Note: All pump station faults will generate a message that can be viewed on the BaseStation 3200 (from the Messages dial position) or in BaseManager (if connected).

Checking the BaseStation–Pump Station Connection Status

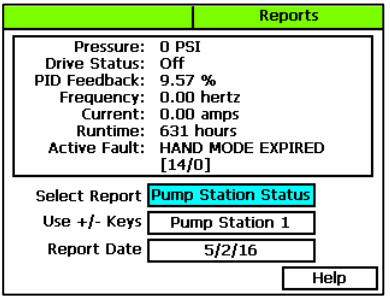
1. On the BaseStation 3200 irrigation controller that is connected to the pump station, turn the dial to the **Network** position.
2. Press the **Next** button until the **Pump Station Setup** option is highlighted.
3. Press the **Enter** button. The Pump Station screen displays.
4. In the **Pump Station ID** field, press the **+** button to choose the pump station that you want to see the connection status for.

   The connection status displays in the lower box.



Viewing Pump Station Reports

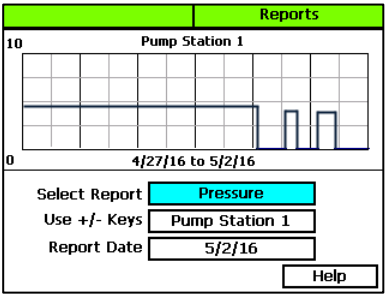
Pump Station Status Report



1. On the BaseStation 3200 irrigation controller that is connected to the pump station, turn the dial to the Reports position.
2. In the **Select Report** field, press the **+** button until **Pump Station Status** displays in the box.
3. Press the **Next** button to move to the Pump Station number field.
4. Press the **+** or **–** button to select the pump station that you want to see the report for.
5. Review the Pump Station Status details in the top pane.

Note: The BaseStation 3200 supports up to 8 pump stations and the status report displays the most current status (no historical status is kept).

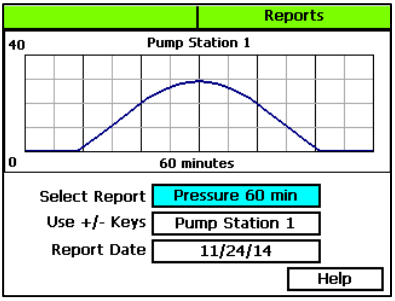
Pump Station Pressure Report



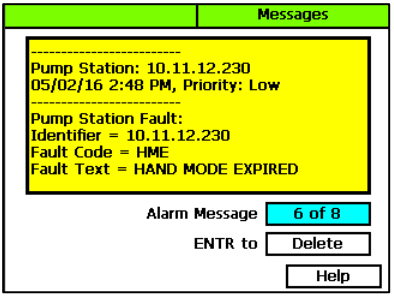
1. On the BaseStation 3200 irrigation controller that is connected to the pump station, turn the dial to the Reports position.
2. In the **Select Report** field, press the **+** button until **Pressure** displays in the box.
3. Press the **Next** button to move to the Pump Station number field.
4. Press the **+** or **–** button to select the pump station that you want to see the report for.
5. (Optional) To view the report for a different date, press the **Next** button to highlight the **Report Date** field, and then press the **+** or **–** button.
6. Review the pump station pressure graph in the top pane.

Pump Station 60 Minute Pressure Report

1. On the BaseStation 3200 irrigation controller that is connected to the pump station, turn the dial to the **Reports** position.
2. In the **Select Report** field, press the **+** button until **Pump Station Status** displays in the box.
3. Press the **Next** button to move to the Pump Station number field.
4. Press the **+** or **–** button to select the pump station that you want to see the report for.
5. Review the graph that shows the pump station pressure during the past 60 minutes in the top pane.



Viewing Pump Station Messages

1. When the main screen indicates that messages exist, turn the dial to the **Messages** position.
2. If there are multiple messages, press the **+** or **–** button to scroll through the messages.
3. To clear the message, press the **Next** button to highlight the **Delete** field, and then press the **Enter** button.

   Note: If you have a BaseManager account, you can also view the pump station messages on the Quick View page in BaseManager.