

Overview

For this configuration, we will be focusing on the communication and network parameters for both the **FireConnect Jockey & Gateway Controllers, or FCJC and FCGC**, when paired with the **Master Control Systems; Diesel and Electric Main Fire Pump Controllers**. This is to include **Master Jockey Controllers** as well when paired with the **FCGC**, special notation will be added for these one-off configurations.

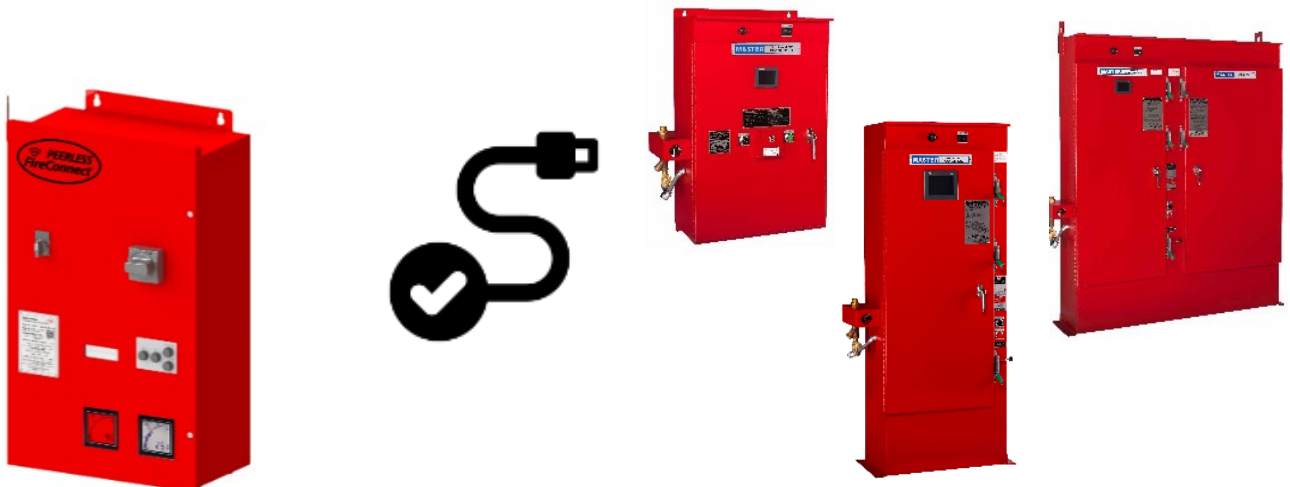
Some of these communication settings will be configured from the factory if ordered with the correct option, but it is important, and should be common practice, to verify each and every parameter is entered correctly.

The **Key Action Items and Parameters** for this configuration are as follows for the **Main Fire Pump Controller**:

1. **Main Controller Settings:**
 - a. IP Address- 192.168.003.198
 - b. Subnet Mask- 255.255.255.000
 - c. Default Gateway 192.168.003.190
2. Verify **Ethernet Connection** from the **Main Controller Interface** to the **FireConnect Gateway**
3. Verify **Ethernet Connection** from the **Jockey Controller Interface** to the **Main Controller Control Board**
4. **Enable AUX EQUIP** Communication for Jockey Communication
5. **Power Cycle**  **Both Main & Jockey Controller** after making any changes to the settings to force the reconnection with the new IP Addresses

The **Key Action Items and Parameters** for this configuration are as follows for the **FireConnect Jockey Controller** or the standard **Master Controls Jockey**:

1. FireConnect Jockey Controller Settings:
 - a. BAUD Rate- 9600
2. Verify Ethernet Connection from the Jockey Controller to the Main Controller



Setting up the Main Controller

Unlocking the Controller; Username and Password

To enter or change settings, this will require a **SERVICE** level Username and Password.

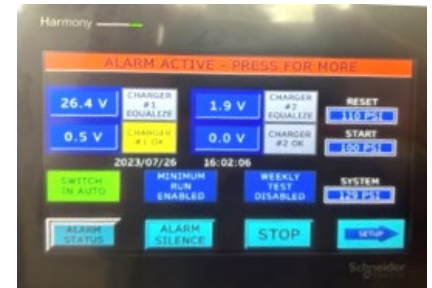
To begin, when navigating from the main screen, start by clicking on the **SETUP** button displayed on the home screen. From this screen, we can now login to allowing navigation to the setting parameters. Begin by clicking on the **LOGIN** button. Reference **Figure-1 & 2** for example display screen.

Next, enter the following:

Username- **SERVICE**

Password- **SERVICE**

*Figure 1 - Main Screen;
Pump Parameters*



Communications; Main Pump Controller IP Addressing

Next, from the **SETUP** screen, as seen in **Figure-2**, click on the **ADVANCED SETUP** button. Once you have navigated to the Advanced Setup menu, as seen in **Figure-3**, click on **DISPLAY SETUP**.

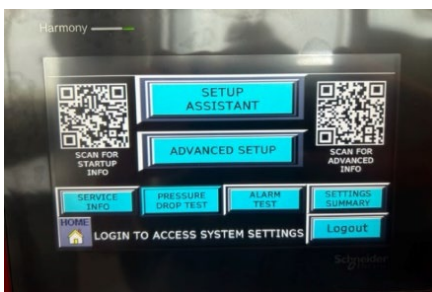


Figure 2 - Setup Screen



Figure 3 - Advanced Setup Screen

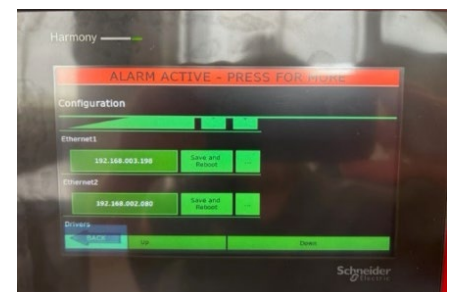


Figure 4 - Display Setup Screen

Once you are on the screen for **DISPLAY SETUP**, as seen in **Figure-4**, scroll down to **ETHERNET-2** and click on the little green box with the three dots to enter the **Network IP Addressing** for the second ethernet port, respectively labeled on the back of the Main Pump Controller interface.

The menu path to this point:

MENU > ADVANCED SETUP > DISPLAY SETUP > ETHERNET 2 > ...

From here you can enter the three main address parameters as follows:

IP Address- **192.168.003.198**

Subnet Mask- **255.255.255.000**

Default Gateway **192.168.003.190**

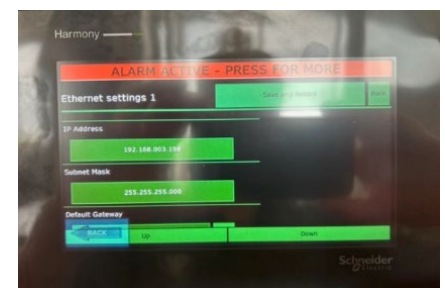


Figure 5 - Ethernet 2 Address Entry

Once you have entered all three addresses in their respective locations for **ETHERNET-2**, be sure to follow all prompts as directed by the interface when exiting this screen to ensure the addresses are deployed correctly, be sure to select “YES” when asked if you would like to restart the interface, activating the new addresses.

Communications; Jockey Pump Controller

Once you have entered the addressing correctly, next we will need to configure the Main controller to communicate with the Jockey controller. This is because the Main controller will collect and aggregate all the data from the fire system, including the Jockey controller, thereby passing all information to the FireConnect system through a single point.

To begin, navigate back to the Advanced Setup menu as seen in Figure-3 and click on the **SERVICE** button to enter the service parameters screen.

From this screen we will need to activate the Jockey Communications feature and can be done by selecting the **AUX EQUIP ENABLED/DISABLED** and making sure the button for Jockey Communications is displayed the same as can be seen in **Figure-6** and should read **JOCKEY PUMP COMM ENABLED**.

The menu path to this point:

MENU > ADVANCED SETUP > SERVICE > AUX EQUIP ENABLED/DISABLED

Communications; Application

After updating any of the communication settings, the controllers should prompt you to reset themselves as you back out of the communications menu or after making any changes. Please confirm **"YES"** as you are exiting these screens to ensure all the setting are applied correctly.

It is always good practice to **Power Cycle** a controller after applying any changes to the communication settings or parameters. This ensures they have been applied correctly and are functional at that time.

Diesel Specific Controllers

It is important to note, Diesel Controllers will require the circuit to be broken from the 12-24VDC engine batteries to the HMI panel in order to perform a proper ON/OFF/ON Power Cycle. This is because the panel interface operates on the 12-24VDC source voltage supplied by the batteries.

This can easily be done by just removing the power cable labeled 12-24vdc on the back side of the Main Controller interface...or by disconnecting the batteries to the controller.

Communications; Ethernet Port Connections

To begin, it is important to understand the overall functionality of the communications from the Jockey & Main Fire Pump Controllers, with respect to how they interact with the FireConnect System. The jockey controller communications in a MCS fire controller system are aggregated in the main controller before being relayed to the FireConnect gateway. This allows the gateway to communicate with a single source but may be confusing due to this functionality requiring 2-Ethernet cables to be installed, to and from the main to jockey.

We will start at the FireConnect Jockey Controller and begin by removing the ethernet cable connected to the back of the panel display as can be seen in **Figure-8**. With this cable removed from the far right ethernet connection in the FCJC, begin by connecting a new cable to the port, long enough to reach the interior of the Master Controls main fire pump controller. Once you have the cable routed to the interior of the main controller, the other end will be connected to the control board inside located in the lower right hand side of the interior. This connection port can be seen in **Figure-9**.

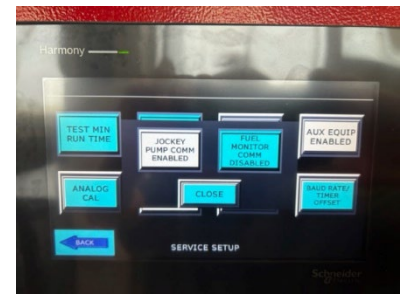


Figure 6 - Service Setup Menu; Enabling Jockey Pump Communications

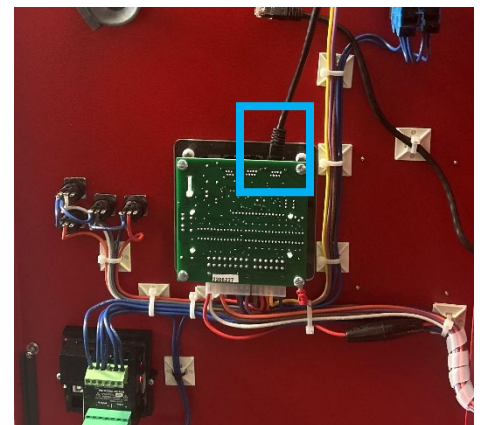


Figure 8 - FCJC Interior

Once the connection from the FCJC to the main control board has been made, next we need to connect the **Ethernet-2** port coming from the back side of the main controller interface to the FireConnect Vapor located inside the FCJC.

Connection to the main controller interface can be seen in **Figure-10** while the connection to the FireConnect Vapor, located inside the FCJC can be seen in **Figure-12** of the FCJC section of this document.

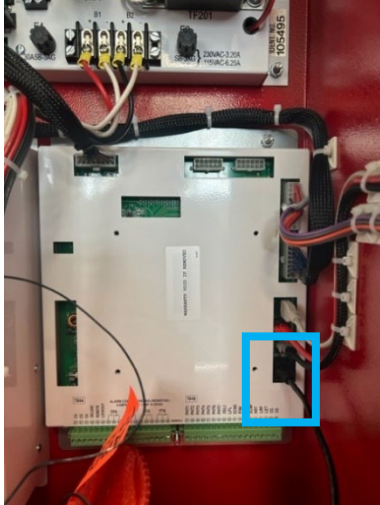


Figure 9 - Ethernet coming from the FCJC panel



Figure 10 - Ethernet-2 Port, Main Controller Interface Backside

Setting up the Jockey Controller; FireConnect Jockey Controller

To enter or change these settings, you will need to hold down the “HOME” and “NEXT” buttons for approximately 3-5 seconds at the same time. You will then see a menu option to change the Baud rate. Please confirm, or change the Baud rate to the following setting:

Baud Rate- 9600

For the Ethernet Communications connection to the FireConnect Jockey Controller, from the Main Fire Pump Controller, it will require the ethernet cable coming from the Main Controller to be connected to the ethernet port on the side of the FireConnect Gateway, inside the FireConnect Jockey Controller, as shown in the image below



Figure 11 - FCJC Serial Baud Rate

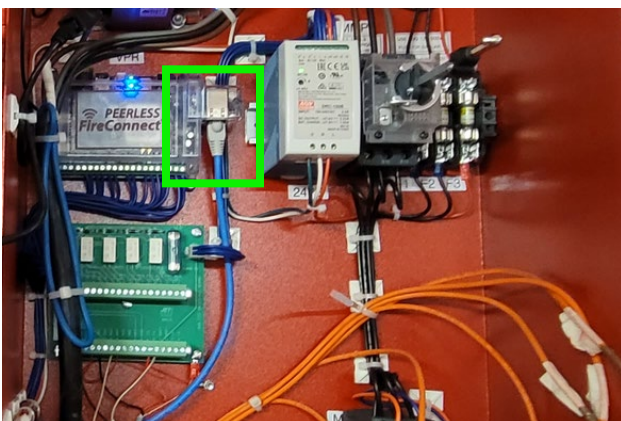


Figure 12 - FCJC FireConnect Vapor Ethernet Connection to the Main Controller

The only remaining step is to now **POWER CYCLE**  both the **Main Fire Pump Controller** and the **FireConnect Jockey Controller**, to ensure all network changes have been forced into place.