



TECHNICAL GUIDE · CN-IC2E-08 · INTERNAL

i-Controller 2.0e Firmware Loading Using Windows 11

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Title: i-Controller 2.0e Firmware Loading Using Windows 11

Table of Contents

Configuring the Windows 11 PC	2
Connecting the Windows 11 PC to the i-Controller 2.0e	2
Configuring the Ethernet connection	2
Configuring the Ethernet connection – continued	5
Loading Firmware Files via Web Server	7
Loading the Autorun.ap1 file	7
Loading the CONFIG_1.TXT	10
Importing the CONFIG_1.TXT file	13

Configuring the Windows 11 PC

Connecting the Windows 11 PC to the i-Controller 2.0e

1. Verify the PC Ethernet port used to connect to the i-Controller is configured as seen in figure 6.
2. Verify the i-Controller 2.0e is powered 'ON'.
3. Connect an Ethernet cable between the PC Ethernet port and i-Controller 2.0e Ethernet port.

Configuring the Ethernet connection

Perform the following steps to configure your PC for the FLō i-Controller 2.0e:

1. In the Windows 11 search bar type "Network connections".



Figure 1. Windows 11 search bar

1. Select the "View network connections" from the search results.

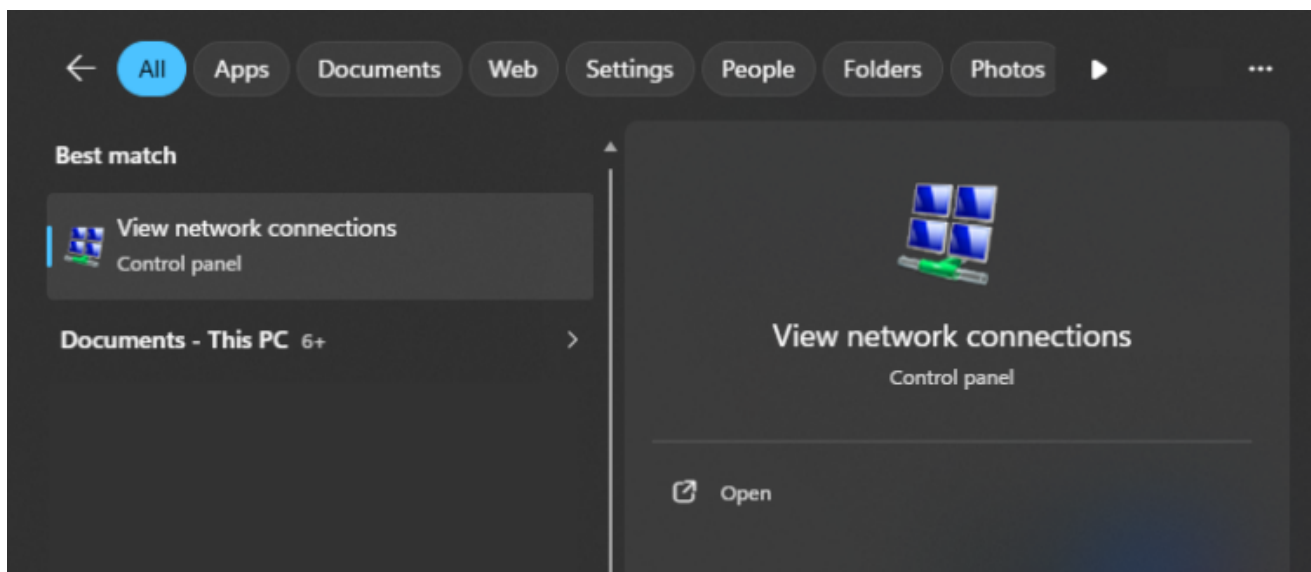


Figure 2. Windows 11 search results

1. Right click the LAN network adapter you wish to configure for communication with the i-Controller 2.0e and select Properties from the popup menu.

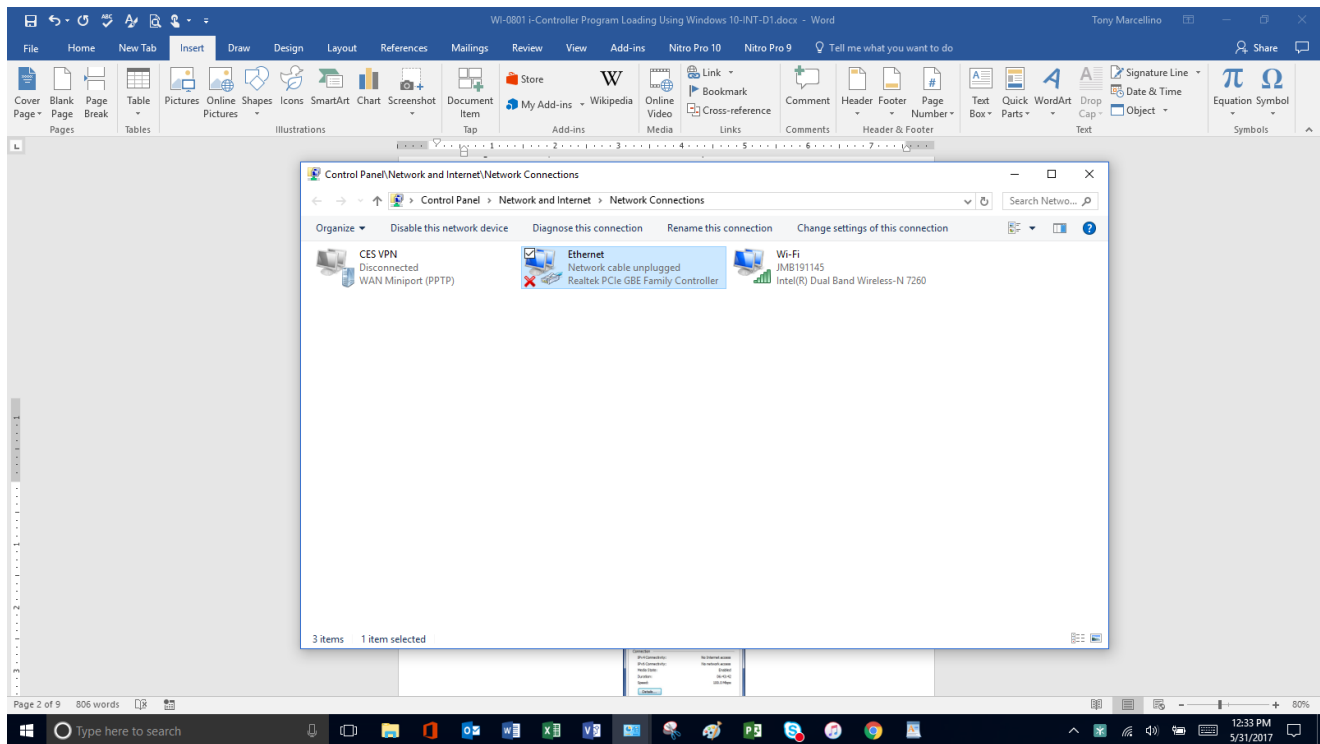


Figure 3. Internet Network Connections

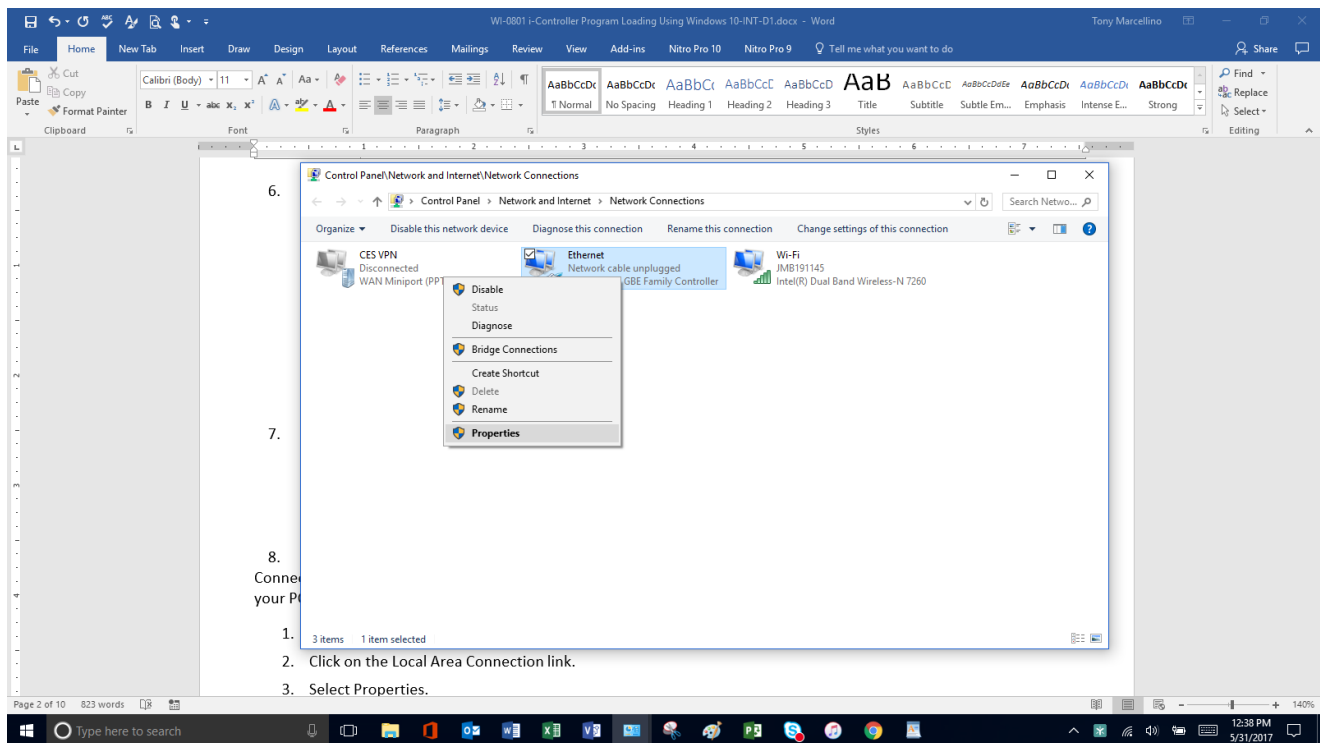


Figure 4. Properties Popup Menu

1. Within the Ethernet Properties dialog, select Internet Protocol Version 4 (TCP/IPv4).

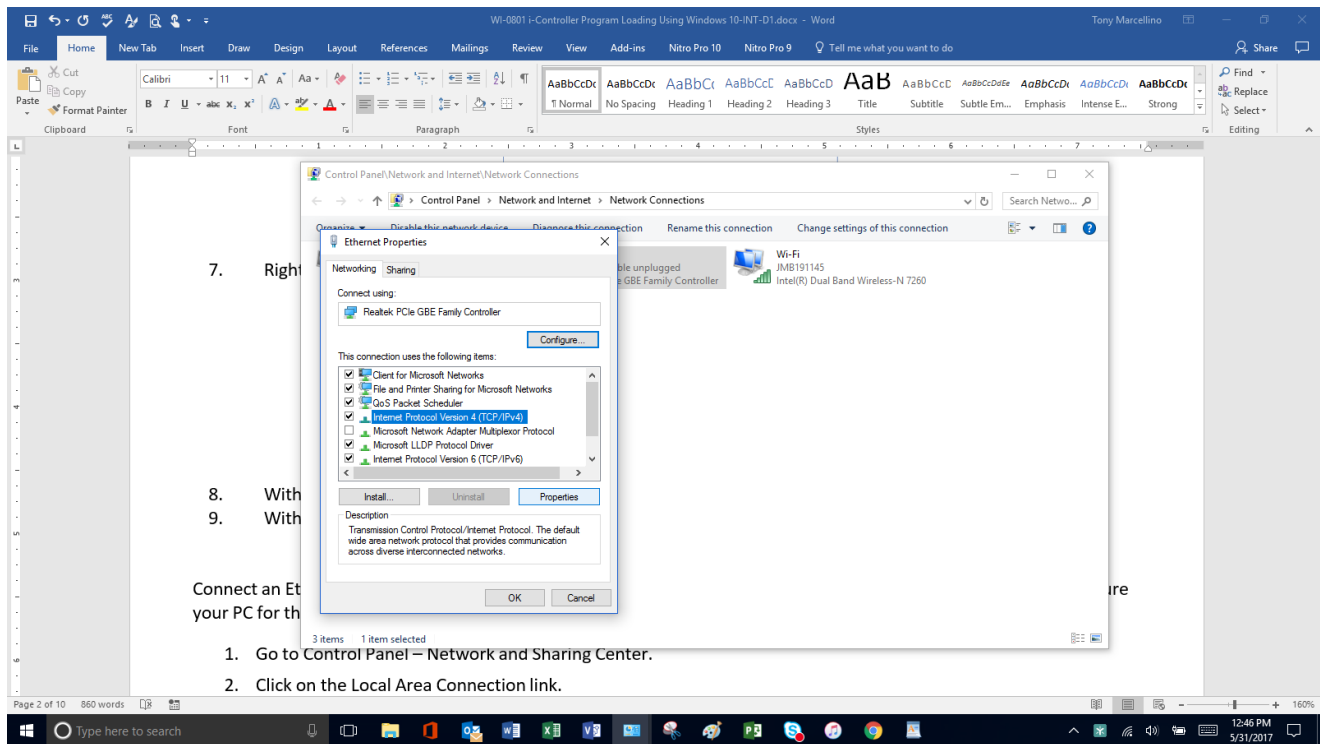


Figure 5. Ethernet Properties Dialog

1. With Internet Protocol Version 4 (TCP/IPv4) highlighted, select the Properties button.

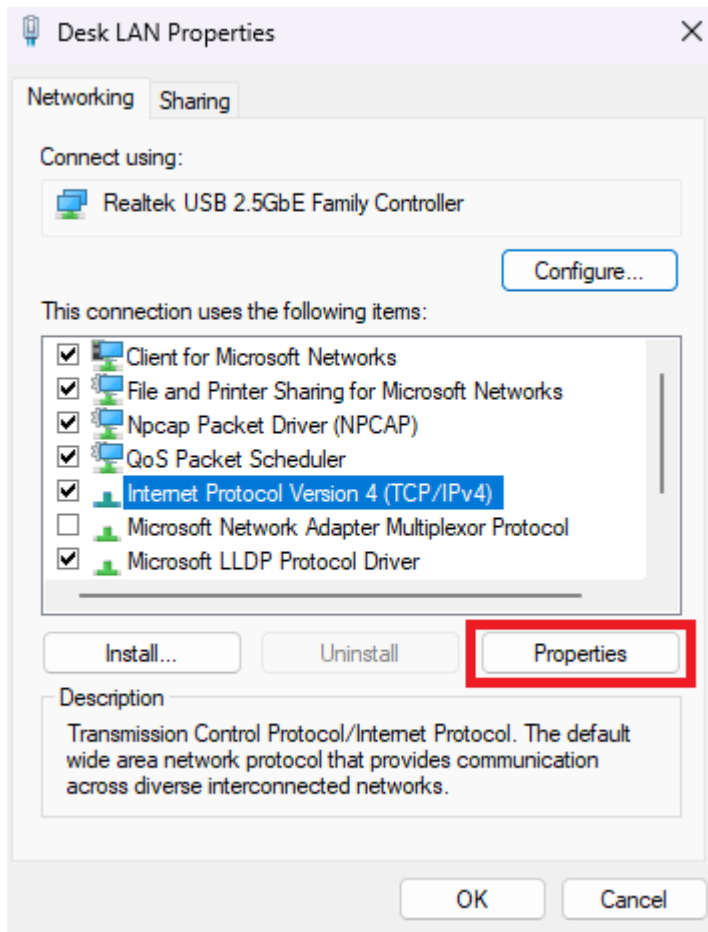


Figure 6. LAN Properties Dialog

Configuring the Ethernet connection – *continued*

1. Within the Ethernet Properties, select the 'Use the following IP address' radial button.
2. Configure the IP Address, Subnet Mask and Default Gateway as seen in figure 6.
3. Within the Ethernet Properties, select 'Use the following DNS server address' radial button.
4. Configure the Preferred and Alternate DNS servers as seen in figure 1.

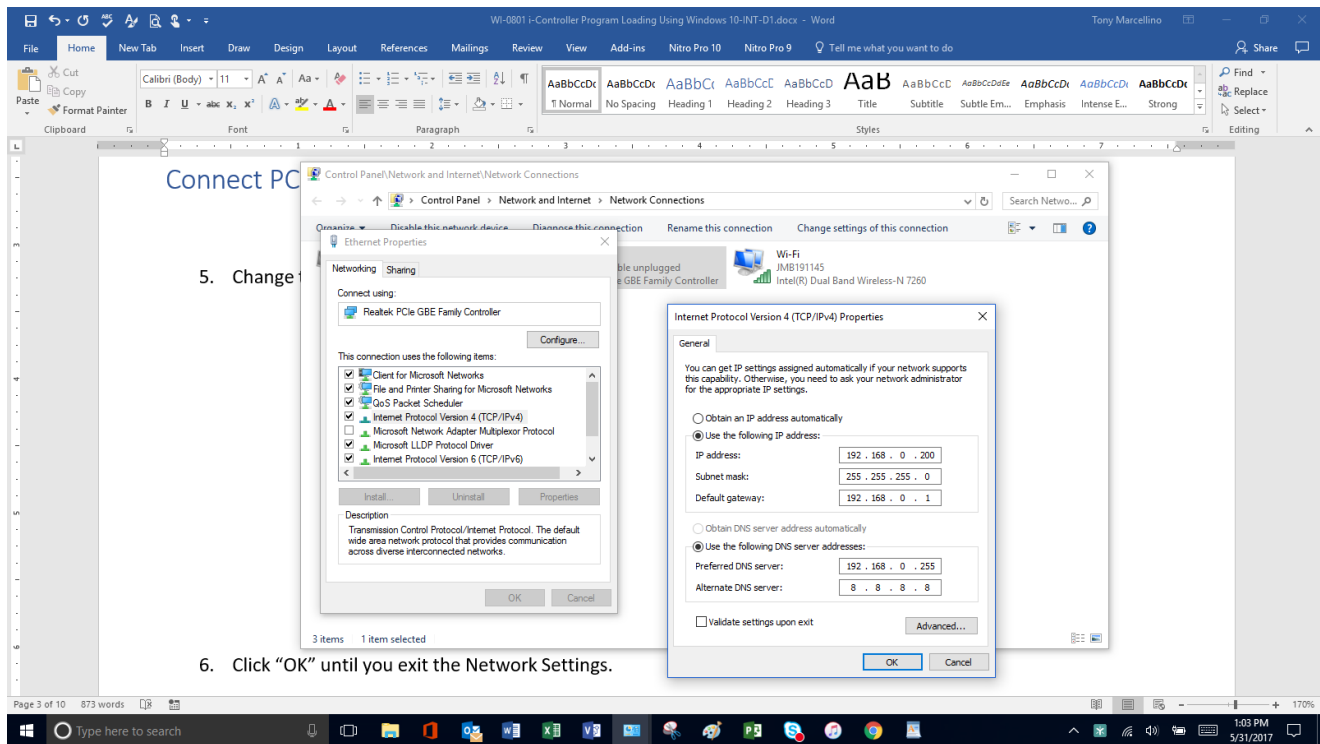


Figure 7. TCP/IPv4 Properties Dialog

1. Select 'OK' to accept the TCP adapter settings.
2. This concludes the PC configuration portion of the work instructions.

NOTE: To verify the Ethernet connection, type the following hyperlink into your browser: <http://192.168.0.150>

If the connection is configured correctly, the Webpage in figure 7 will appear. If the iPro Configuration & Analysis Webpage does not appear, verify the Ethernet connection.



Figure 8. FLō i-Controller Webpage

Loading Firmware Files via Web Server

NOTE: Load the i-Controller 2.0e application files in this order:

1. Autorun.apl
2. CONFIG_1.txt

Loading the *Autorun.apl* file

1. Using the Windows 11 PC, connect to the i-Controller 2.0e using an Ethernet connection.
2. Open a Web browser.
3. Type the IP address into your web browser: <http://192.168.0.150>
4. The Windows Viewer will be displayed as seen in figure 7.
5. Select the “UPGRADE” button located on the menu as seen in figure 1.



Figure 9. FLō i-Controller Website

1. When prompted, enter the login credentials:

USER: Service

PASSWORD: 2846

1. Select the "Choose File" button as seen in figure 9.



Figure 10. FLō i-Controller Website

1. In the Windows viewer, navigate and select the **Autorun.ap1** file from its storage location and select "Open".
2. After the file has been selected, press "Upload API to i-Controller".
3. Once the file upload has finished, the upgrade process will automatically start.
4. When the upgrade process has finished, an "Upgrade completed successfully" message will appear, and the controller will reboot. As seen in figure 10.



Figure 11. FLō i-Controller Website

1. It will take the controller 30-seconds for the controller to reboot.

Loading of the Autorun.ap1 file is complete.

Loading the **CONFIG_1.TXT**

1. Using the Windows 11 PC, connect to the i-Controller 2.0e using an Ethernet connection.
2. Open a Web browser.
3. Type the IP address into your web browser: <http://192.168.0.150>
4. The Windows Viewer will be displayed as seen in figure 7.
5. Select the "UPLOAD" button located on the menu as seen in figure 1.



Figure 12. FLō i-Controller Website

1. When prompted, enter the login credentials:

USER: Service

PASSWORD: 2846

1. Select the “Choose File” button as seen in figure 12.



Figure 13. FLō i-Controller Website

1. In the Windows viewer, navigate and select the **CONFIG_1.txt** file from its storage location and select "Open".
2. After the file has been selected, press "Upload file to i-Controller".
3. Once the file upload has finished, you will see the upload progress bar go to 100% and a message below the bar will indicate upload success. See figure 13.



Figure 14. FLō i-Controller Website

Loading of the CONFIG_1.txt file is complete.

Importing the **CONFIG_1.TXT** file

1. Using the Windows 11 PC, connect to the i-Controller 2.0e using an Ethernet connection.
2. Open a Web browser.
3. Type the IP address into your web browser: <http://192.168.0.150>
4. The Windows Viewer will be displayed as seen in figure 7.
5. Select the “PGD” button located on the menu as seen in figure 14.



Figure 15. FLō i-Controller Website

1. When prompted, enter the login credentials:

USER: Service

PASSWORD: 2846

Use the display emulator for the following steps:

1. If the “Standby” screen is displayed, press the program button to go to the “Home” screen. See figure 15 and figure 16.



Figure 16. FLö i-Controller PGD Standby Screen

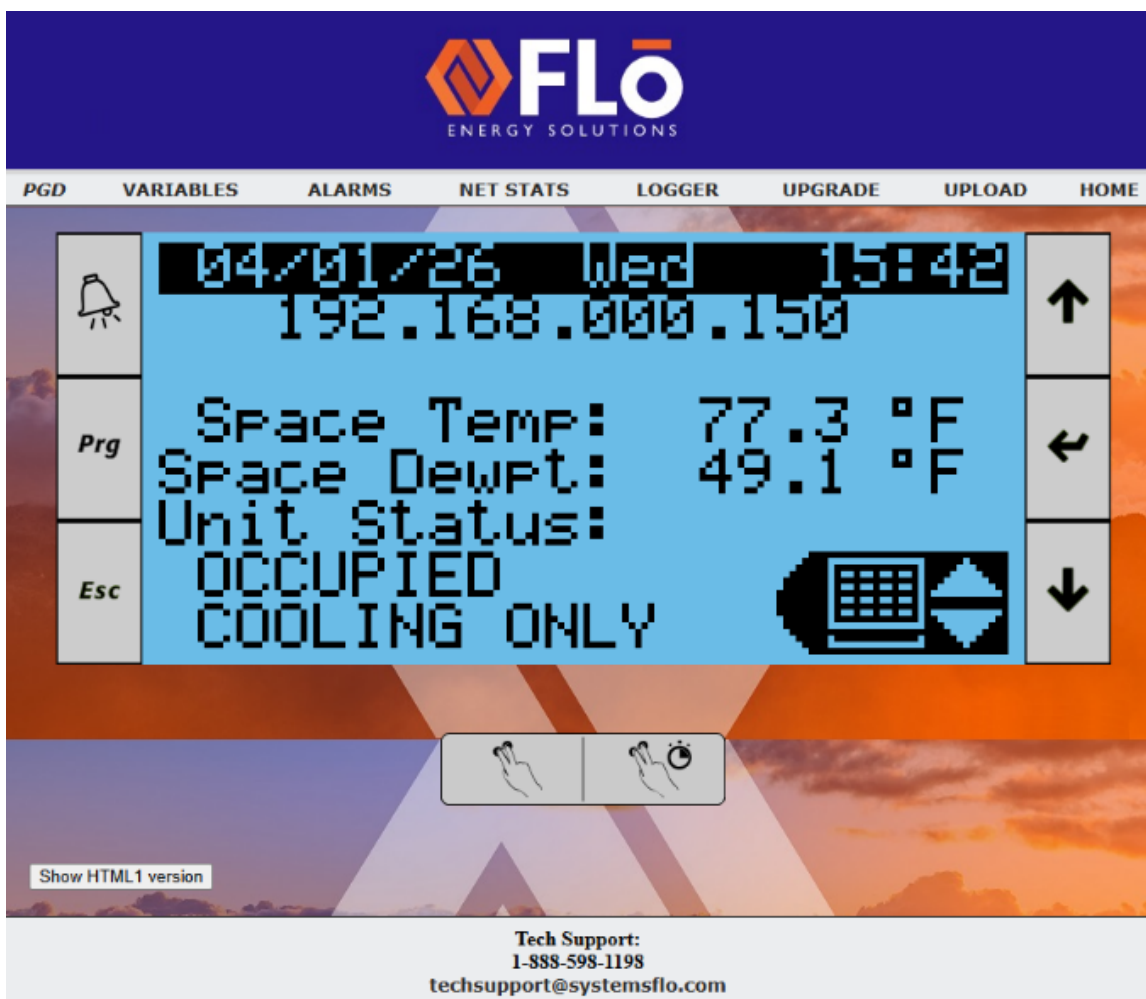


Figure 17. FLō i-Controller PGD Home Screen

1. From the "Home" screen, press the program button "Prg" three times to go to the "Settings Menu" as seen in figure 17.

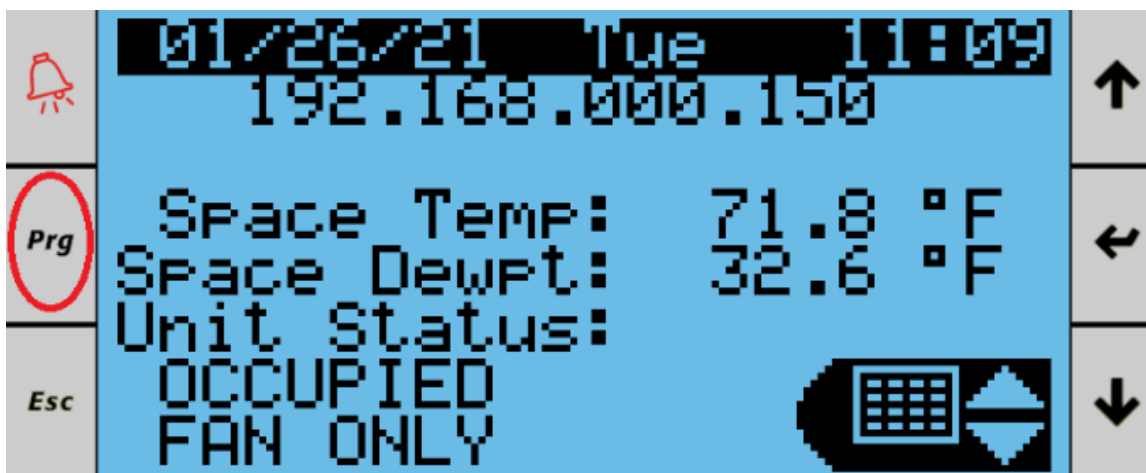


Figure 18. Display Home Screen

1. In the “Settings Menu” press the “UP” arrow to go to the “Import/Export” selection and press “Enter” button. See figure

1.



Figure 19. Display Settings Menu

1. Press the “Enter” button to move the flashing cursor to the “Import/Export:” selection. Use the “UP” arrow to set selection to “IMPORT” and press “Enter” to select change and move cursor to the next field.
2. Use the “UP” arrow to set “Memory type:” field to “INTERNAL FLASH MEMORY” and press “Enter” to select change and move cursor to the next field.
3. Use the “UP” arrow to set the “File name:” field to “CONFIG_01” and press “Enter” to select change and move cursor to the next field.
4. The curser is in the “Confirm” field now. Verify all settings. See figure 19.



Figure 20. Unit Configuration Settings

- 1.
2. Once settings are verified, use the "UP" arrow to set the "Confirm:" field to "Yes" and press "Enter" to begin import.
3. "Operation done" will be displayed once the import has completed. See figure 20.

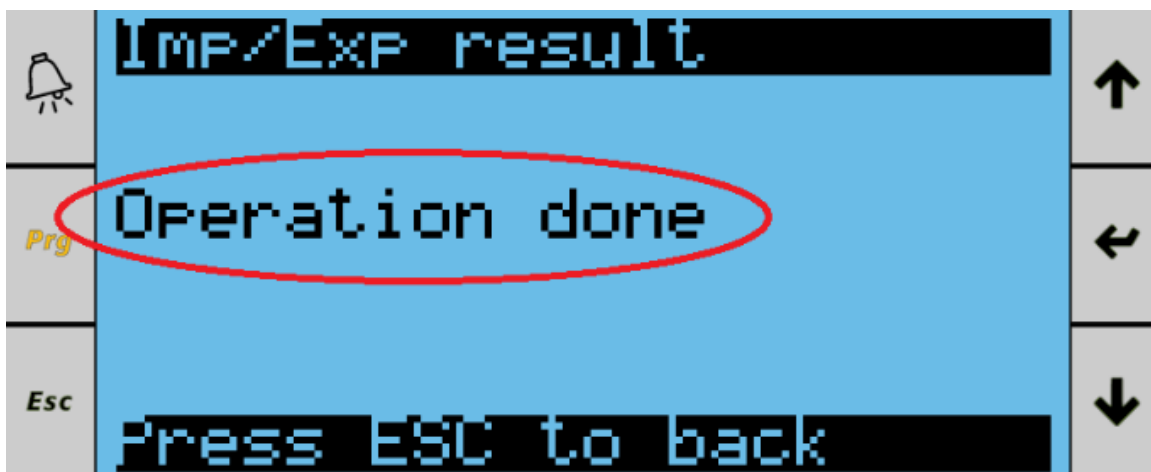


Figure 21. Import complete Screen

Importing of the CONFIG_1.txt file is complete.

REVISION HISTORY

Revision (n-ddmonthyyyy)	Modification

D1-20January 2021	Initial Draft
1-28MAY2021	Rebranded as FLō
2-28JUNE2022	Fixed the 3 references to the incorrect password, was 2864, is actually 2846
3-01APR2026	2.0e Revision – Adam Pflanze

APPROVALS

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