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BURK TECHNOLOGY Plus-X IIU Integrated Input Unit User Guide

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Product Information

Plus-X IIU Integrated Input Unit

The Plus-X IIU Integrated Input Unit is a device used for monitoring and controlling various parameters in a

system. It allows for easy integration with other devices through LAN/WAN connections, making it versatile and flexible for different applications. It comes with a Quick Start Guide that outlines the steps to set up the device, and a comprehensive Installation and Operation Manual is available for detailed configuration and setup information. The Plus-X IIU package includes one unit, one power cord, one Ethernet cable, and four 16-pin terminal blocks. In case of any issues, customer support is available through phone and email on weekdays from 9 am to 5 pm EST.

Product Usage Instructions

Plus-X IIU Integrated Input Unit

Step 1: Unpacking

Unpack the Plus-X IIU package and ensure that all the components are present, including the unit, power cord, Ethernet cable, and terminal blocks.

Step 2: Network Setup

1. Plug in the power cord and connect the Plus-X IIU to your network via the rear-panel Ethernet connector.
2. If your network supports DHCP functionality, a dynamic IP address will be assigned to the unit. If DCHP is not supported on your network skip ahead to step 3 now. To access the unit, launch a web browser and enter the hostname PLUSXIIU/ in the browser's address field then skip to step 5. Be sure to include the forward-slash symbol in the hostname.
   1. From the Control Panel, select Network Connections.
   2. Double-click the icon for the network you will be using.
   3. On the General tab, click Properties.
   4. Click Internet Protocol version 4 TCP/IPv4.
   5. Select Properties.
   6. Choose Use the following IP address and enter an IP address of 192.168.0.x, where x is any valid address location except 100.
   7. Enter Subnet Mask 255.255.255.0
   8. Click OK.
3. Open a browser and enter the Plus-X IIU default IP address of 192.168.0.100.
4. The web page will prompt you to set a password for the administrator account.
5. The login screen will then be displayed. Enter the username admin and the password you supplied above.
6. The first screen displayed after initial login is an abbreviated Network page requiring you to enter a static IP address for the Plus-X IIU. Check with your network administrator for an available IP address that is not within the DHCP address range.
7. Your browser will be automatically redirected to the new IP address. If your initial connection was made without DHCP, your PC should now be restored to its prior network settings and both the PC and the Plus-X IIU should be connected to the normal LAN.
8. Log in to the Plus-X IIU at its new static IP address, go to the Settings tab on the web page and select Network to change the network information. Add the necessary network information and select save to confirm the changes.
9. To verify communication, open a command prompt on your computer and ping the address you just assigned to the unit to ensure it is correctly configured.

Step 3: Connecting a Meter or Status Input

Refer to the Plus-X IIU Installation & Operation Manual for information on configuring and calibrating input channels.

Step 4: Connecting to an ARC Plus Touch or ARC Plus SL

1. The Plus-X IIU communicates with the ARC Plus Touch or ARC Plus SL via LAN/ WAN. Use AutoLoad Plus to add the Plus-X device to the ARC Plus Touch or ARC Plus SL unit.
2. Ensure you have the current version of AutoLoad Plus installed on your computer. To obtain the current version, visit **www.burk.com/downloads** and select the AutoLoad Plus support page.
3. On the AutoLoad Plus menu, select Edit->Plus-X Devices and click Add. The dialog box shown to the right will be displayed.

This Quick Start Guide will show you how to set up the Plus-X IIU in four simple steps. For detailed configuration and setup information,
visit **www.burk.com/downloads**, select the Plus-X IIU support page and download the Plus-X IIU Installation and Operation Manual.

UNPACKING

In addition to this Quick Start Guide, you will find the following in each package:

- (1) Plus-X IIU Unit
- (1) Power Cord
- (1) Ethernet Cable
- (4)16-pin Terminal Block

CUSTOMER SUPPORT

PHONE

- (978) 486 – 3711
- M-F 9am – 5pm EST

EMAIL
support@burk.com

NETWORK SETUP

1. Plug in the power cord and connect the Plus-X IIU to your network via the rear-panel Ethernet connector.
2. If your network supports DHCP functionality, a dynamic IP address will be assigned to the unit. If DCHP is not supported on your network skip ahead to step 3 now. To access the unit, launch a web browser and enter the hostname PLUSXIIU/ in the browser's address field then skip to step 5. Be sure to include the forward-slash symbol in the hostname.
3. If your network doesn't support DHCP, the Plus-X IIU will assign itself the default IP address 192.168.0.100. You will need to connect a PC with a web browser to the Plus-X IIU at this IP address before you can change the network settings on the unit. One way to do this is to unplug your PC from any other LAN and connect your PC to the Plus-X IIU via a network switch or a cross-over ethernet cable. Then configure your PC with a compatible IP address so that you may connect to the Plus-X IIU. Running Windows, the following steps will allow you to configure your PC with a compatible IP address:

- From the Control Panel, select Network Connections.
- Double-click the icon for the network you will be using.
- On the General tab, click Properties.
- Click Internet Protocol version 4 "TCP/IPv4".
- Select Properties
- Choose "Use the following IP address" and enter an IP address of 192.168.0.x, where x is any valid address location except 100.
- Enter Subnet Mask 255.255.255.0
- Click OK.

1. Open a browser and enter the Plus-X IIU default IP address of 192.168.0.100.
2. The web page will prompt you to set a password for the administrator account.
3. The login screen will then be displayed. Enter the username admin and the password you supplied above.
4. The first screen displayed after initial login is an abbreviated Network page requiring you to enter a static IP address for the Plus-X IIU. Check with your network administrator for an available IP address that is not within the DHCP address range.
5. Your browser will be automatically redirected to the new IP address. If your initial connection was made without DHCP, your PC should now be restored to its prior network settings and both the PC and the Plus-X IIU should be connected to the normal LAN.
6. Log in to the Plus-X IIU at its new static IP address, go to the Settings tab on the web page and select Network to change the network information. Add the following network information and select save to confirm the changes.

- NetBIOS/Hostname – This name should be changed from its default value of PLUSXIIU so conflicts will not occur if multiple Plus-X devices of the same model are installed on the network.
- IP Address – This field will display the static IP address you entered in a previous step.
- Subnet Mask – Check with your network administrator otherwise the factory default setting can be used.
- Gateway – Check with your network administrator otherwise the factory default setting can be used.
- ARC Plus IP address – Enter the IP address of the ARC Plus Touch or ARC Plus SL unit that the Plus-X IIU will be connected to.
- HTTP Port – Check with your network administrator. The factory default setting is port 80.

- Plus-X Port – Check with your network administrator otherwise the factory default setting can be used. This port must match the setting for Plus-X Port on your ARC Plus Touch or ARC Plus SL unit.

To verify communication, open a command prompt on your computer and ping the address you just assigned to the unit to ensure it is correctly configured.
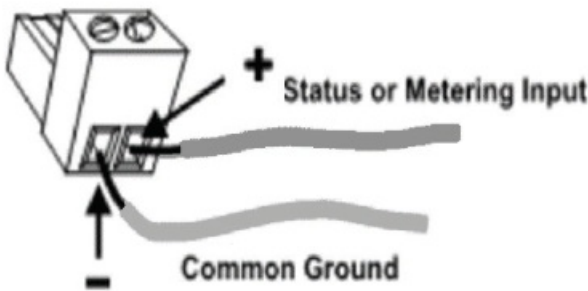
CONNECTING A METER OR STATUS INPUT

Each Plus-X IIU connects up to 16 metering inputs (±10VDC) and 16 status inputs (0-28VDC or switch closure). Meter inputs may be used as status channels by setting the high and low voltage thresholds. The meter and status pin-outs are as shown in the graphic below.

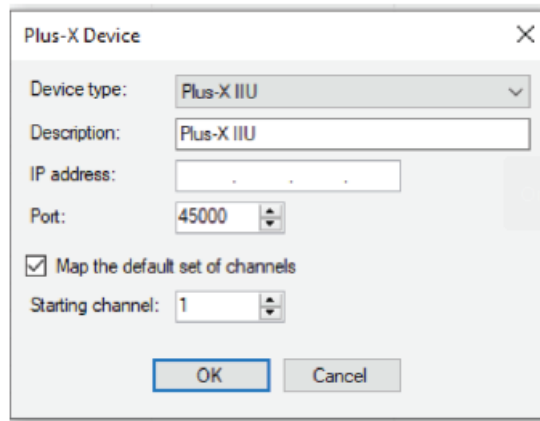| CH 1		CH 2		CH 3		CH 4		CH 5		CH 6		CH 7		CH 8	
-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+
-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+
CH 9		CH 10		CH 11		CH 12		CH 13		CH 14		CH 15		CH 16	

Connecting a Meter or Status Input

1. Connect your site equipment to the provided 16- pin push-on block connectors. Secure the wires with the built-in setscrews. The status or metering sample connects to the + terminal, and a common ground connects to the – terminal.
2. Connect the push-on blocks to the rear panel of the Plus-X IIU with the setscrews facing up. Be sure to precisely align the connector terminals to the + and – contacts on the back panel of the unit.

For information on configuring and calibrating input channels, see the Pl us-X IIU Installation & Operation Manual.

CONNECTING TO AN ARC PLUS TOUCH OR ARC PLUS SL

The Plus-X IIU communicates with the ARC Plus Touch or ARC Plus SL via LAN/ WAN, allowing installation anywhere a network connection is available.

Use AutoLoad Plus to add the Plus-X device to the ARC Plus Touch or ARC Plus SL unit. Ensure you have the current version of AutoLoad Plus installed on your computer. To obtain the current version, visit **www.burk.com/downloads** and select the AutoLoad Plus support page. On the AutoLoad Plus menu, select Edit->Plus-X Devices and click Add. The dialog box shown to the right will be displayed. • Select Plus-X IIU and enter its network information.

Note: If adding more than one Plus X device to an ARC Plus, change the starting channel so that other assigned channels are not overwritten.

- Select OK to confir m the first Plus X device.
- If adding more than one Plus X device, repeat the same steps.
- Save the configuration by selecting File>Save in AutoLoad Plus

To confirm that the Plus-X IIU is communicating, log in to the ARC Plus Touch or ARC Plus SL using the web browser. All assigned channels should show their default values.

MANUALLY MAPPING PLUS-X CHANNELS

1. To manually map Plus-X channels to the ARC Plus, click the Meter or Status tab as appropriate. Locate an unused channel and click the […] button in the Source column.
2. This will bring up the Source dialog. Click the Plus-X button and choose the Plus-X device and channel you wish to use.
3. Configure labels, limits, and alarms for the newly added Plus-X channels.
4. Lastly, you will need to calibrate the metering channels. If you have not already connected the input connector blocks, do so now. Then click the Calibration icon at the far right of the Source column in the AutoLoad Plus Meter Channels tab to complete the calibration process.
5. Select File>Save to save the changes to the ARC Plus.

Note: If the meter or status inputs show as offline or a warning is displayed, check the network configuration and ensure the configuration is saved within AutoLoad Plus.

Refer to the Plus-X IIU Installation and Operation Manual for further information on configuring and operating the Plus-X IIU unit.

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Documents / Resources

BURK TECHNOLOGY Plus-X IIU Integrated Input Unit [pdf] User Guide
Plus-X IIU, Plus-X IIU Integrated Input Unit, Integrated Input Unit, Input Unit

References

- **Downloads - Burk Technology - Facilities Monitoring & Control Solutions**
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