

Plus-X IIU

Integrated Input Unit

QUICK START GUIDE



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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.

1 UNPACKING

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

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



CUSTOMER SUPPORT

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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 DHCP 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:

1 From the Control Panel, select Network Connections.	5 Select Properties.
2 Double-click the icon for the network you will be using.	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.
3 On the General tab, click Properties.	7 Enter Subnet Mask 255.255.255.0
4 Click Internet Protocol version 4 "TCP/IPv4".	8 Click OK.

4. Open a browser and enter the Plus-X IIU default IP address of 192.168.0.100.
5. The web page will prompt you to set a password for the administrator account.
6. The login screen will then be displayed. Enter the username admin and the password you supplied above.

7. 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.

8. 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.

9. 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.

a. 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.

b. IP Address – This field will display the static IP address you entered in a previous step.

c. Subnet Mask – Check with your network administrator otherwise the factory default setting can be used.

d. Gateway – Check with your network administrator otherwise the factory default setting can be used.

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2 NETWORK SETUP (CONTINUED)

- e. **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.
- f. **HTTP Port** – Check with your network administrator. The factory default setting is port 80.
- g. **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.

10. 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.

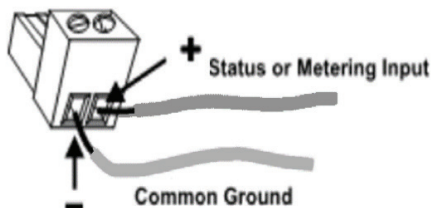
3 CONNECTING A METER OR STATUS INPUT

Each Plus-X IIU connects up to 16 metering inputs ($\pm 10\text{VDC}$) 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 Plus-X IIU Installation & Operation Manual.

4 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.

The screenshot shows the 'Plus-X Device' dialog box. It has fields for 'Device type' (set to 'Plus-X IIU'), 'Description' (set to 'Plus-X IIU'), 'IP address' (empty), and 'Port' (set to '45000'). There is a checkbox 'Map the default set of channels' which is checked, and a 'Starting channel' dropdown set to '1'. 'OK' and 'Cancel' buttons are at the bottom.


- 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 confirm 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. This will bring up the Source dialog. Click the Plus-X button and choose the Plus-X device and channel you wish to use.
2. Configure labels, limits, and alarms for the newly added Plus-X channels.
3. 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.
4. 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.