



Instruction Manual

Plus-X SNMP

Rev A
Server Firmware v.1.0.0.139
Client Firmware v.0.0.3.111

If you encounter problems during installation or need additional assistance getting started, contact Burk Technical Support.

Telephone **1 (978) 486-3711**

If any parts are not present when you unpack the box(es), please contact Burk Technology sales department.

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USING THIS MANUAL

This manual is best viewed as a .pdf on a computer or tablet. The manual has many hypertext links to help you get to the section you need. Most of the initial setup requires a web browser, and keeping a copy of the manual in .pdf form on the same machine is very helpful.

The .pdf file has bookmarks to assist with navigation. You should have a current copy of Adobe Reader on your computer and have the Bookmarks enabled. The most recent version of Adobe Reader can be downloaded at <http://get.adobe.com/reader/>.

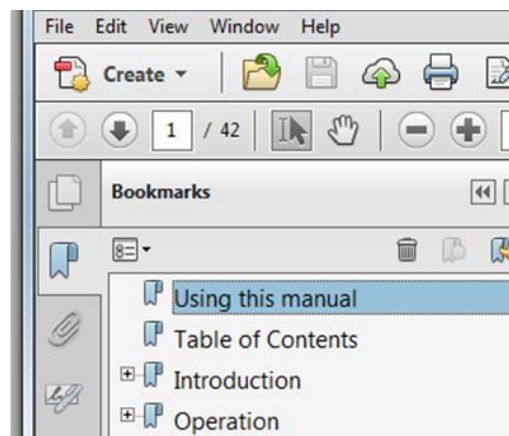
To enable bookmarks, press  and expand the desired section by pressing .

You can also jump directly to a section in the **TABLE OF CONTENTS**. Just click on the section or page number to go directly there.

Take a few minutes to familiarize yourself with the organization of this manual, as it will likely save time later when you need to find a specific piece of information quickly. Throughout the manual, you will find hypertext links like this: **INSTALLATION**. Ctrl-click on the link to go directly to the named section.

Here is a quick set of links to the major sections of the manual:

TABLE OF CONTENTS	Fully expanded table of contents useable in .pdf or printed form
INTRODUCTION	Brief overview of Plus-X SNMP
INSTALLATION	Hardware installation and input/output connections



The manual contains several instances of user input. Text between < > symbols are user input fields. You should put your input data between the < > symbols but do not include the < > symbols.

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INTRODUCTION

Plus-X SNMP is an SNMP manager that works in conjunction with your ARC Plus Touch or ARC Plus SL to provide monitoring and control for all your SNMP enabled equipment regardless of vintage or SNMP version. With a single connection to your LAN or WAN, Plus-X SNMP expands your ARC Plus system to manage all devices compatible with SNMP v1, v2c or v3. Plus-X SNMP manages each SNMP device according to its version and capabilities, concurrently supporting devices with different SNMP versions. This ensures that newer devices which support SNMP v3 can take advantage of the enhanced security provided by authentication and encryption.

Plus-X SNMP uses SET and GET commands to control and monitor SNMP-enabled equipment. All SNMP protocol handling is done directly on the Plus-X SNMP device. Plus-X SNMP communicates with your ARC Plus system over the LAN or WAN, using the Burk Plus-X protocol.

CONNECTIONS AND INDICATORS

FRONT PANEL

The front panel of the Plus-X SNMP is shown in Figure 1.



Figure 1. Front panel of the Plus-X SNMP

POWER INDICATOR

Table 1 describes the possible states of the power indicator.

<i>Indicator</i>	<i>State</i>	<i>Description</i>
Power LED	Unlit	Power is off
Power LED	Red	Power is on

Table 1. Front panel power indicator states.

MASTER INIT

The MASTER INIT button is used to reset the Plus-X SNMP to factory default settings. Press and hold this button for approximately five seconds then release. The unit will be reset to factory default settings.

Note: Initializing the unit in this manner will reset all network connection data and channel configurations in the unit to factory default status.

ETHERNET CONNECTION

The ETHERNET connection is used to connect the Plus-X SNMP to a LAN or WAN for communication with controlled SNMP devices (agents) and the ARC Plus system.

DC POWER

The POWER connector is used to connect the supplied 6VDC wall power adapter.

MONITORING AND CONTROL

Once configured, the Plus-X SNMP uses SNMP GET commands to request data for ARC Plus meter and status channels and uses SNMP SET commands to execute actions initiated by ARC Plus command channels. Plus-X SNMP communicates with your ARC Plus using the Burk Plus-X protocol, enabling the ARC Plus to monitor and control multiple SNMP agents using SNMP version v1, v2c or v3.

WEBSITE INTERFACE

The website interface is accessed through port 5001 on your web browser by entering the <IP address>:5001 of the unit into the address bar of your browser. From the website interface, you can make configuration changes, view and change network settings, and view operational parameters.

FIRMWARE UPDATES

Plus-X SNMP firmware is subject to updates on a periodic basis. To update the firmware, refer to the *Burk Firmware Loader Manual* and Application at: <https://www.burk.com/support/downloads>.

INSTALLATION

UNPACKING

The Plus-X SNMP ships with the following:

- Plus-X SNMP unit
- 6V, 1.25A wall power supply
- 10' shielded CAT5 cable

These parts will be needed for each Plus-X SNMP you plan to install. If any parts are not present when you unpack the box(es), please contact Burk Technology Sales Department.

COMPATIBILITY

Make sure the system firmware and AutoLoad Plus software versions are updated to the minimum release versions provided in Table 4. If you plan to use AutoPilot software with your Plus-X SNMP unit(s), make sure your AutoPilot software is updated to the minimum release version provided in Table 4.

<i>Firmware / Software</i>	<i>Version</i>
ARC Plus firmware	5.1.5.12
AutoLoad Plus software	3.3.1.3
AutoPilot software	4.4.10.2 or greater

Table 4. Firmware compatibility

NETWORK CONNECTIVITY

Before installing the Plus-X SNMP, have the following information ready to enter in the Plus-X SNMP network settings window:

- A unique static IP address for the Plus-X SNMP you are installing
- The subnet mask and gateway address for your LAN
- The IP address of your ARC Plus system

LOG ON FOR THE FIRST TIME

The process to establish communication with the Plus-X SNMP for the very first time depends on whether you have a Dynamic Host Configuration Protocol (DHCP) enabled network.

IF DHCP IS NOT ENABLED

If you are not working in a DHCP enabled network, follow the steps below.

1. Temporarily set up your computer to have an IP address as follows:

<192.168.0.xxx>

You can use any unused number you like for the xxx except 1 or 100. Make sure the temporary IP address you choose for your computer doesn't conflict with other equipment on your network.

2. Open a web browser and type in the following address and port into the address bar and continue below to step 3 in the section [Using A DHCP Enabled Network](#)

<192.168.0.100:5001>

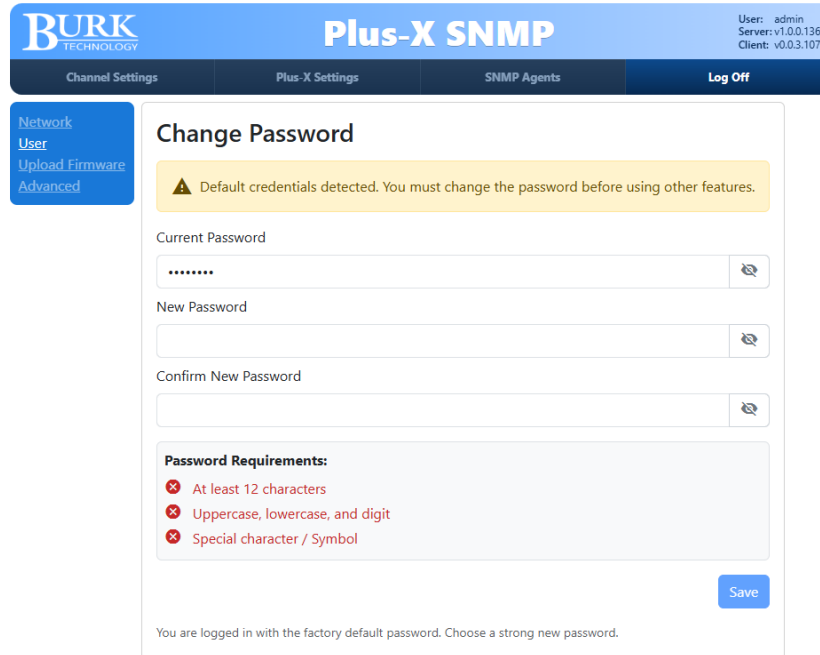
USING A DHCP ENABLED NETWORK

If your network has DHCP, follow the steps below or else proceed to [If DHCP Is Not Enabled](#)

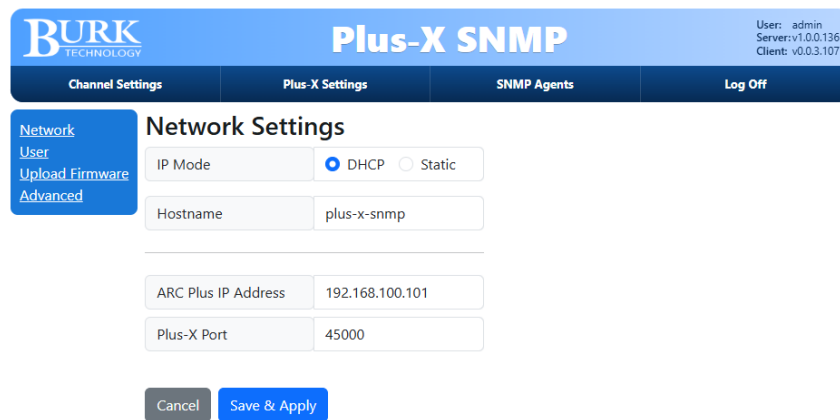
1. Plug one Plus-X SNMP into your network switch.
2. Open a web browser and type in the following address in the browser address bar:
<plus-x-snmp/>
3. A window will appear asking to enter the password for the Plus-X SNMP. Use the default password of "password" and the username "admin".



4. After you log in to the Plus-X SNMP, you will be required to change the password before you can access additional features. Passwords must have at least 12 characters including both upper and lower case letters, a number and a special character or symbol.



5. Set a new password that meets the requirements. Once the requirements are met you will be allowed to save the new password and continue to configuration.



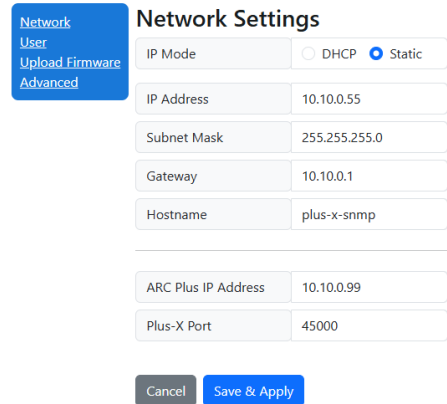
6. Next click on Plus-X Settings then Network. Select the Static IP mode option to set a static IP address.
7. Enter a static IP address for your Plus-X SNMP. This is the IP address you will use to launch a website interface session with the Plus-X SNMP and that an ARC Plus system can use to communicate with the Plus-X SNMP.

In this window you should enter in the following information:

- Unique Net/BIOS Hostname

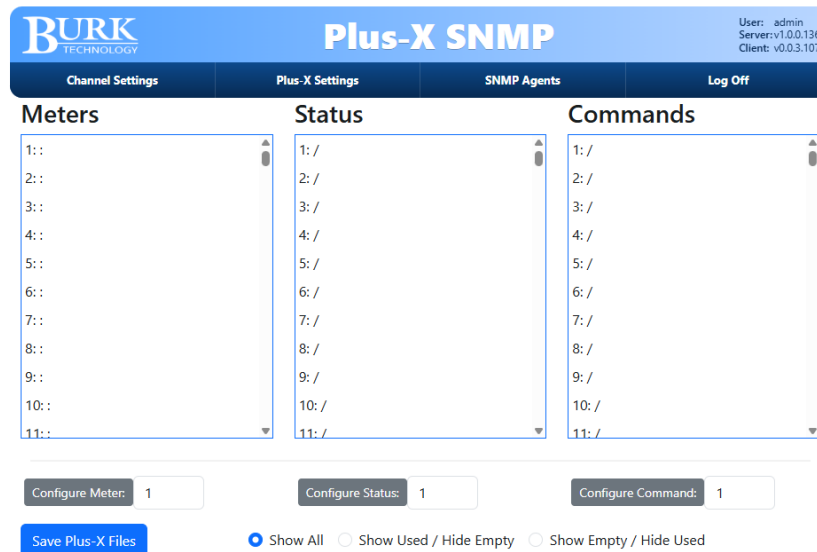
(especially if you have more than one Plus-X SNMP)

- Subnet Mask
- Gateway
- ARC Plus IP Address



The Network Settings form is located on the right side of the page. It has a blue header with the text 'Network Settings'. Below the header, there are several input fields and buttons. On the left, there is a vertical menu with four items: 'Network' (highlighted in blue), 'User', 'Upload Firmware', and 'Advanced'. The main form area contains the following fields: 'IP Mode' with radio buttons for 'DHCP' and 'Static' (selected); 'IP Address' with the value '10.10.0.55'; 'Subnet Mask' with the value '255.255.255.0'; 'Gateway' with the value '10.10.0.1'; 'Hostname' with the value 'plus-x-snmp'; 'ARC Plus IP Address' with the value '10.10.0.99'; and 'Plus-X Port' with the value '45000'. At the bottom, there are two buttons: 'Cancel' and 'Save & Apply'.

- After you enter a new Static IP address for the Plus-X SNMP and click **Save & Apply**, a new log-on screen will pop up asking you to log on again. If a new login screen does not appear automatically, enter the new <IP address>:5001 in the browser. Enter the Plus-X SNMP username and password just as you did in step 4.
- After your log on is complete, the Plus-X SNMP will open to the main Channel Settings screen of the website interface.



The Plus-X SNMP main interface is shown below. It has a blue header with the 'BURK TECHNOLOGY' logo and the text 'Plus-X SNMP'. On the right side of the header, it says 'User: admin', 'Server: v1.0.0.136', and 'Client: v0.0.3.107'. Below the header, there are four tabs: 'Channel Settings', 'Plus-X Settings' (selected), 'SNMP Agents', and 'Log Off'. The main content area is divided into three columns: 'Meters', 'Status', and 'Commands'. Each column has a list of 11 items, numbered 1: to 11:. Below the columns, there are three buttons: 'Configure Meter: 1', 'Configure Status: 1', and 'Configure Command: 1'. At the bottom, there is a 'Save Plus-X Files' button and three radio buttons: 'Show All' (selected), 'Show Used / Hide Empty', and 'Show Empty / Hide Used'.

- The Plus-X SNMP is now ready for operation and configuration in your system as part of an ARC Plus system. Repeat this process for each Plus-X SNMP one at a time if you have multiple units.

SETTING UP SNMP AGENTS

Before you get started configuring channels you will need to add SNMP agents that you want to monitor and control using Plus-X SNMP. Follow these steps to add each SNMP agent.



The screenshot shows the Plus-X SNMP web interface. At the top, there's a header with the BURK TECHNOLOGY logo and the title "Plus-X SNMP". On the right, user information is displayed: "User: admin, Session: 44.57, Server: v1.0.0.139, Client: v0.0.3.111". Below the header is a navigation bar with four tabs: "Channel Settings", "Plus-X Settings", "SNMP Agents", and "Log Off". The "SNMP Agents" tab is selected. Below the tabs, the title "SNMP Agents" is shown. A table lists the configured agents:

Name	IP Address	Port
Burk FM	10.10.0.51	161
IP Link 100	10.10.0.42	161
RF Switch	10.10.0.79	161

Below the table are three buttons: "Add New" (blue), "Delete" (red), and "Edit" (grey). A "Back" button is located at the bottom right.

1. Click SNMP Agents on the Plus-X SNMP web interface.
2. Click Add New, then provide a Name and the IP address for the new SNMP device.



The screenshot shows the "Configure SNMP Agent" form in the Plus-X SNMP web interface. The header and navigation bar are the same as in the previous screenshot. The title "Configure SNMP Agent" is displayed. The form contains the following fields:

- Name: IP Link
- IP: 10.10.0.42
- Port: 161
- SNMP Version: v3 (dropdown)
- Security Level: Auth, No Priv (dropdown)
- Username: snmpuser2
- Authentication: SHA (dropdown) with a password field (masked with asterisks) and a "Show" button.
- Block Interval: 1 seconds

At the bottom, there are two buttons: "Back" (grey) and "Save Changes and Test Connection" (blue).

Tip: For SNMP v1 and v2c there is a single Community field so for commands to function be sure to use the read/write string on your SNMP agent device if presented with both a read and read/write string.

3. Configure the correct SNMP settings for SNMP Version, Security Level, Username, etc. that match the agent device you are adding.
4. Click Save Changes and Test Connection then click Back to configure additional SNMP Agents.
5. Repeat steps 2 – 4 for each SNMP agent you need to add.

Note: To remove an agent from the SNMP Agents list, simply select the agent you want to remove and click the Delete button. Click delete one more time in the confirmation dialog to confirm deletion.

METER INPUT CONFIGURATION

The Plus-X SNMP device can be configured to get SNMP values to view on ARC Plus meter channels. It is recommended to always start with Meter 1. You can leave gaps between channels if desired. However, be aware of how many consecutive unused channels you have available on the ARC Plus system to facilitate automatic channel mapping later in the setup process.

1. Select a Meter number on the Channels Settings page to begin configuration.

The screenshot shows the 'Plus-X SNMP' configuration page for 'Meter Channel 1'. The interface includes a top navigation bar with 'Channel Settings', 'Plus X Settings', 'SNMP Agents', and 'Log Off'. The main configuration area has a 'Select SNMP Agent' dropdown set to 'Main Transmitter', an 'Add SNMP Agent' button, an 'OID' field with '1.3.6.1.4.1.26079.2000.2.1.1.3.1' and a 'Browse...' button, and a 'Description' field with 'No description available'. Below this is a 'Data Format' section with radio buttons for 'Multiply By' (selected), 'IEEE Float', and '7 byte Opaque', with a multiplier input field set to '1'. Further down are fields for 'Label' (set to 'TX A Fwd'), 'Units' (set to 'W'), and 'Decimal Places' (set to '0000'). At the bottom, there is a 'Test' button, an 'OID Value: —' field, a 'Status:' field, a 'Clear Configuration' button, and 'Cancel' and 'Save' buttons.

2. Select the SNMP agent from the drop-down list box and enter the correct OID for the value you want to get from the agent.
3. Select the Multiply option and add a multiplier if the value needs to be scaled down or up to read properly on the ARC Plus. If no multiplier is needed just set the multiplier to 1.
4. Enter a label for the Meter channel to display on the ARC Plus.
5. Enter a Units label to display on the ARC Plus.
6. Set the number of decimal places for the ARC Plus to use with the meter channel.
7. Click Test to check that the device is responding with the expected value. The scaled value and decimal place settings will not show here for the OID Value, only the raw value from the SNMP agent device.
8. Click save to configure another channel

STATUS INPUT CONFIGURATION

The Plus-X SNMP device can be configured to get SNMP values to view on ARC Plus status channels. It is recommended to always start with Status 1. You can leave gaps between channels if desired. However, be aware of how many consecutive unused channels you have available on the ARC Plus to facilitate automatic channel mapping later in the setup process.

1. Select a Status slot number on the Channels Settings page to begin configuration.

The screenshot shows the 'Plus-X SNMP' configuration page for 'Status Channel 1'. The interface includes a top navigation bar with 'Channel Settings', 'Plus X Settings', 'SNMP Agents', and 'Log Off'. The main configuration area has a 'Select SNMP Agent' dropdown menu set to 'Main Transmitter', an 'Add SNMP Agent' button, an 'OID' field with the value '1.3.6.1.4.1.26079.2000.1.1.1.3.11', and a 'Browse...' button. Below this is a 'Description' field with the text 'No description available'. Further down, there are three input fields: 'Match' with the value '1', 'On label' with the value 'TX A On', and 'Off label' with the value 'TX A Off'. At the bottom, there is a 'Test' button, a status display showing 'OID Value: —' and 'Status: —', and a 'Clear Configuration' button. On the far right, there are 'Cancel' and 'Save' buttons.

2. Select the agent from the drop-down list box and enter in the correct OID for the value you want to get from the agent.
3. Enter On and Off labels for the Status channel to display on the ARC Plus.
4. Select a value to match the SNMP response in the Match field. If the response matches, the ARC Plus status channel will display the On label. If the received value doesn't match, the ARC Plus status channel will display the Off label.
5. Click Test to check that the device is responding with the expected value.
6. Click save to configure another channel.

CONTROL RELAY CONFIGURATION

The Plus-X SNMP device can be configured to send set SNMP values based on ARC Plus command channels. It is recommended to always start with Command 1. You can leave gaps between channels if desired. However, be aware of how many consecutive unused channels you have available on the ARC Plus to facilitate automatic channel mapping later in the setup process.

Commands channels have 4 options that can be configured. They can be configured in such a way that the Raise and Lower functions can be mutually exclusive.

Note: Raise On will send the Lower Off command first before sending the Raise On command. Similarly, the Lower On command will send the Raise Off command first then the Lower On to provide mutual exclusion between devices. If you want 2 independent commands just use the Raise On and Lower On options. Leave the Raise Off and Lower Off unconfigured.

1. Select a Command number on the Channels Settings page to begin configuration.
2. Select Edit for Raise On or Lower On to get started.
3. Select the agent from the drop-down list box and enter the correct OID for the value you are trying to set.
4. Select the Data Type and Value that corresponds with the set command OID you entered in step 3.



Warning: The Test button will try to execute a set command. Use caution when testing and test when it is safe to do so.

5. If it is safe to do so you can press the test button to see if the command works.
6. Press the Save button to save configuration changes.
7. Click Edit for any of the remaining options you want to configure repeating steps 3-6 as necessary.
8. Enter Raise and Lower labels for your set commands then click Save to save the changes.

SOFTWARE CONFIGURATION

Once communication with the Plus-X SNMP has been established from the browser on your personal computer (see **LOG ON FOR THE FIRST TIME**), and you have some agents and channels configured (see **MONITORING AND CONTROL**) you can add the device to the ARC Plus for monitoring and control.

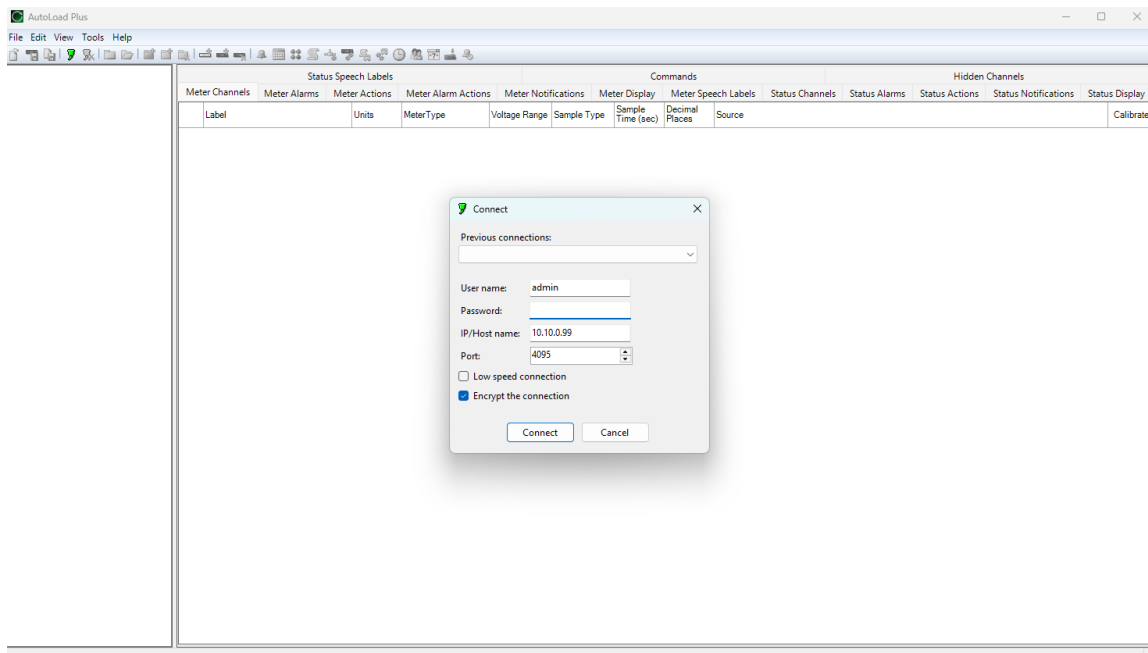
ADDING THE PLUS-X SNMP TO THE ARC PLUS

Installation Note: Even though you may operate the ARC Plus system and Plus-X SNMP on different subnets, Burk Technology strongly recommends installing the Plus-X SNMP on the same LAN as the ARC Plus. If communications between separate networks fail, an ARC Plus can only continue to monitor and control a Plus-X device on the same LAN. If the network link between the units is not available, ARC Plus macros and alarm monitoring will be unavailable for the Plus-X SNMP.

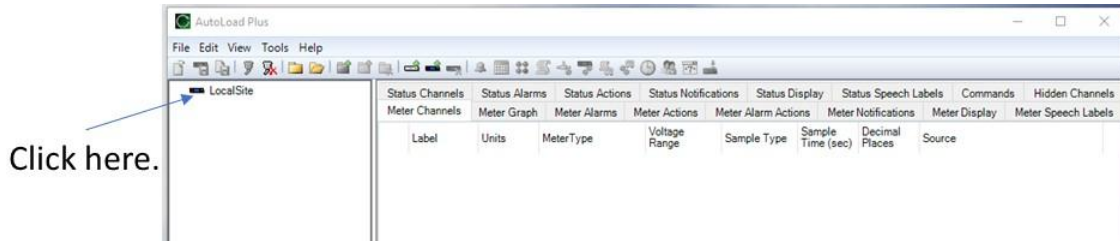
To use the Plus-X SNMP as part of an ARC Plus remote monitoring and control system, you will need to add the Plus-X SNMP to the system using AutoLoad Plus software.

Complete steps in **LOG ON FOR THE FIRST TIME** to establish PC communications with your Plus-X SNMP Unit(s).

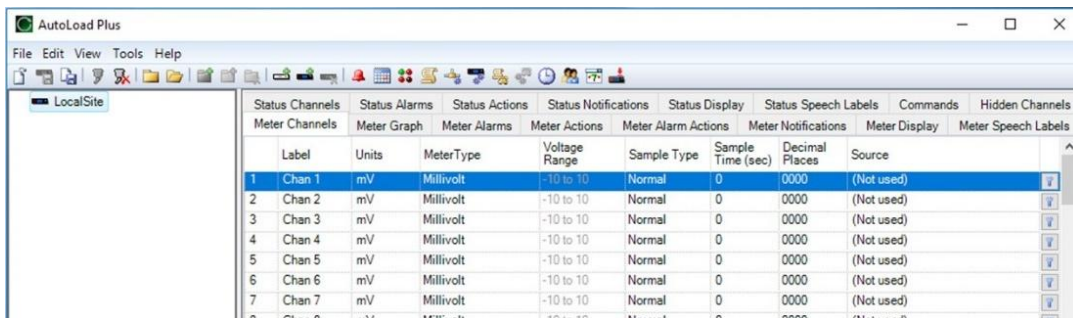
1. Download AutoLoad Plus software version 3.3.1.3 or greater from the AutoLoad Plus support page at www.burk.com/downloads.
2. Install then open the AutoLoad Plus software. You will see a screen like the one below.



- Enter the User name, Password, IP/Host name and Port for your ARC Plus system. The default screen will appear as shown below. Click on your site name in the top left of the window.

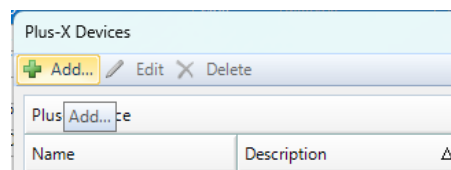


- After you click your site name, you will see the existing channels that are already configured on the ARC Plus appear in the AutoLoad Plus window. Make note of what consecutive bank of channel numbers are available on your system for automatic channel mapping. The number of consecutive channels you need on the ARC Plus will depend on how your Plus-X SNMP is configured.

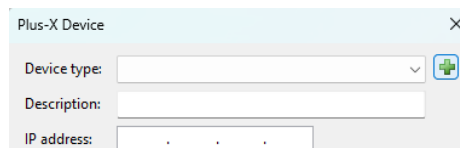


In the screen shot above, the ARC Plus system has no meter channels configured. This may or may not be the case with your system.

- To add a Plus-X SNMP unit to the ARC Plus, select **Edit**, then from the edit menu select **Plus-X Devices...** The Plus-X Devices dialog will open as shown below. Click **+ Add...**.



- A second dialog box will appear as shown below.

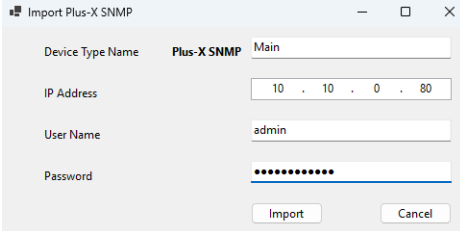


If you want to import settings information as previously configured on the Plus-X SNMP unit, do NOT make a selection from the **Device type** drop-down box. Instead, click the green plus sign  to the right of the drop-down box. Then proceed to step 7 below.

If you do not want to import configuration data from the Plus-X SNMP unit, select Plus-X SNMP from the Device type drop down list, then proceed to step 8 below. This will import a generic first 8 channels template. You can configure the labels manually in AutoLoad Plus later.

Installation Note: Selecting a device type from the list will cause the  button to disappear. So be sure nothing is selected if you want to import settings directly from the Plus-X SNMP device. Click cancel and reopen the dialog if you have already made a selection from the drop-down box.

7. The Import Plus-X SNMP dialog box will be displayed as shown to the right. Enter the correct information for your Plus-X SNMP device and click **Import**.



Device Type Name	Provide a unique descriptor like “Main”. “The Plus-X SNMP” will be added automatically to the name.
IP Address	Enter in the static IP address you selected when you first setup communications with the Plus-X SNMP.
User Name	The user name for the Plus-SNMP device login. Always use admin for the user name.
Password	Password for the Plus-X SNMP device you setup.

Table 7. Pop-up window for Plus-X SNMP information needed to import the unit configuration to an ARC Plus system.

8. Check the box for “Map the default set of channels” and enter the ARC Plus channel number you want the Plus-X SNMP mapping to start at. Enter the correct information for your Plus-X SNMP device in the remaining fields and click **OK**. Then proceed to step 9 below.

Device Type	Click the  sign button to import already configured settings directly or choose Plus-X SNMP from the pull-down list for generic template. To refresh and existing Plus-X SNMP template, select it from the Device type list and click on the refresh  button.
Description	Provide a unique descriptor like “Plus X SNMP Main”.
IP Address	Enter in the static IP address you selected when you first setup communications with the Plus-X SNMP.
User Name	The user name for the Plus-SNMP device login. Always use admin for the user name.
Password	Password for the Plus-X SNMP device you setup.

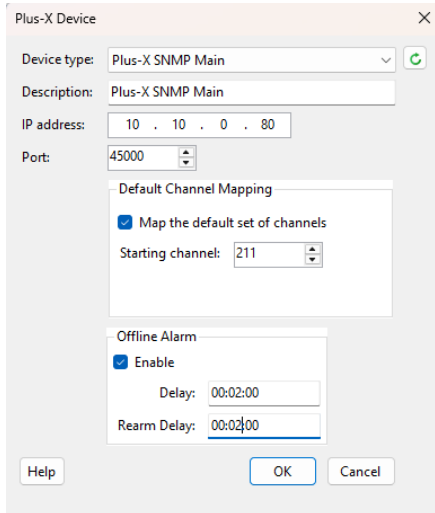
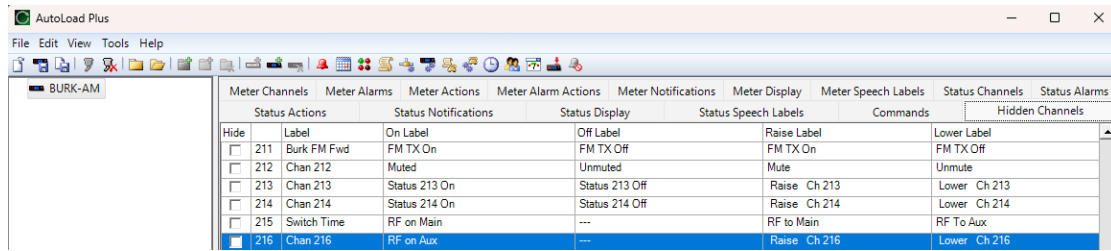
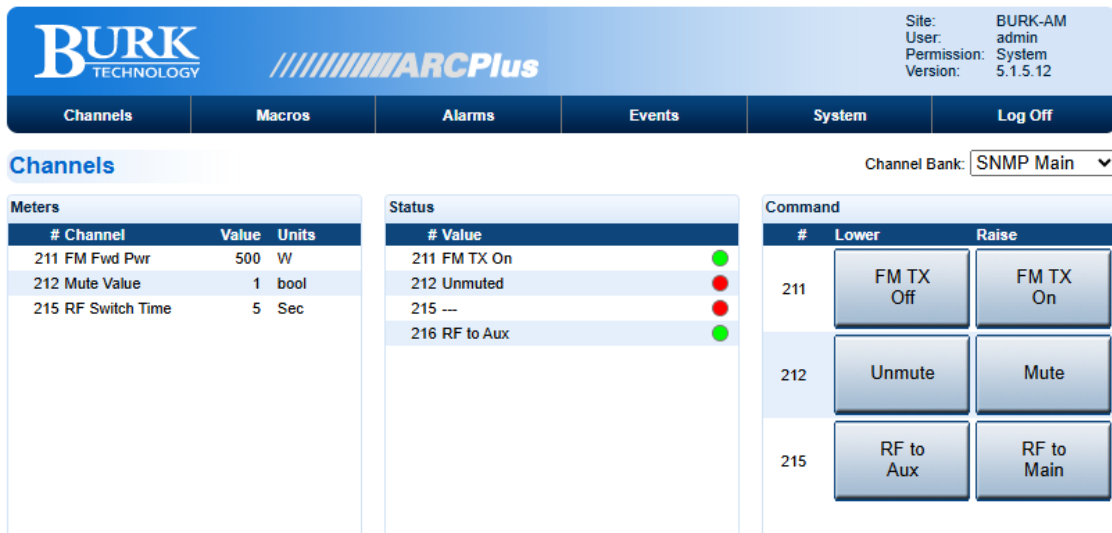


Table 8. Remaining information needed for Plus-X SNMP needed import the unit configuration to an ARC Plus system.

- After you click **OK** in Step 8, you will see the following screen. Select File->Save to save the new configuration to the ARC Plus.



- Verify the ARC Plus is receiving data by going to the ARC Plus IP address in a web browser and logging into the ARC Plus web interface.



UPDATING PLUS-X SNMP CHANNELS

When changes are made to the Plus-X SNMP device (i.e. adding new channels, updating channels or removing channels no longer needed) it will be necessary to modify the channel configurations in the ARC Plus to match these changes.

- After you have made configuration changes to the Plus-X SNMP device, log into AutoLoad Plus, select the site and click Edit->Plus-X Devices.

Plus-X Device				Offline Alarms		
Name	Description	IP Address	Port	Enable	Delay	Rearm
Dual RF Switch Controller	Dual RF Switch Controller	10.10.0.79	45000	☒	00:02:00	00:02:00
Plus-X SNMP Main	Plus-X SNMP Main	10.10.0.80	45000	☒	00:02:00	00:02:00

☐ Mute All Plus-X Offline Alarms

OK Cancel

2. Select your existing Plus-X SNMP device. If the **Name** field displays “Plus-X SNMP”, that means the generic template was used in the original channel configuration. To manually edit the ARC Plus channels, close the Plus-X Devices dialog box and proceed to **MANUALLY BINDING CHANNELS** to complete the channel updates.
3. If you want to automatically map the updated channel configuration, click  **Delete**. You will be prompted to reset the currently mapped Plus-X SNMP channels to default values. It is recommended that you select Yes here to ensure that the old channel mappings and labels are properly removed.

Plus-X Devices

Reset channels mapped to this Plus-X device to default values?

Yes No Cancel

4. Click the Add  **Add...** button if you deleted the existing Plus-X SNMP device above.
5. If you want to modify a previously created Plus-X SNMP template, select that template from the Device Type drop-down box and click the refresh  button. Then proceed to Step 7 in the procedure above to complete the channel update.

Plus-X Device

Device type: Plus-X SNMP Main

Description: Plus-X SNMP Main

IP address: 10 . 10 . 0 . 80

Port: 45000

Default Channel Mapping

☐ Map the default set of channels

Starting channel: 1

Offline Alarm

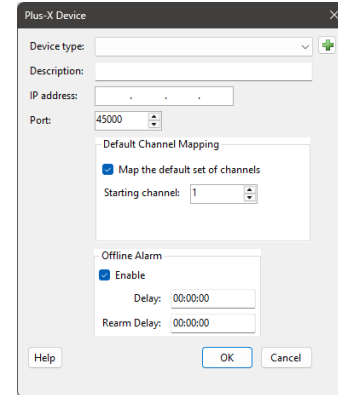
☒ Enable

Delay: 00:02:00

Rearm Delay: 00:02:00

Help OK Cancel

- If you want to create a new template, do not make a selection from the Device Type drop-down box. Instead, click the Add  button to the right of the drop-down box. Then proceed to Step 7 in the procedure above to complete the channel update.



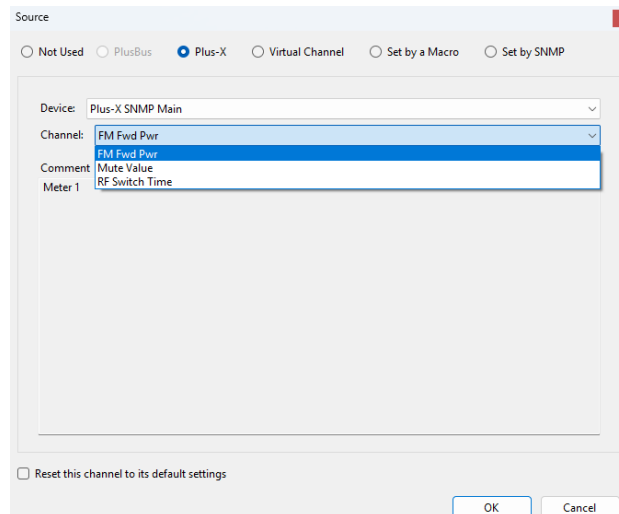
The 'Plus-X Device' dialog box contains the following fields and options:

- Device type:** A drop-down menu with a plus icon to its right.
- Description:** A text input field.
- IP address:** A text input field with a dotted pattern.
- Port:** A numeric input field set to 45000.
- Default Channel Mapping:**
 - ☒ Map the default set of channels
 - Starting channel:** A numeric input field set to 1.
- Offline Alarm:**
 - ☒ Enable
 - Delay:** A time input field set to 00:00:00.
 - Rearm Delay:** A time input field set to 00:00:00.
- Buttons:** Help, OK, and Cancel.

MANUALLY BINDING CHANNELS

To manually bind channels or update labels, use the following procedure:

- Select the Meter Channels, Status Channels or Commands tabs in AutoLoad Plus to begin editing the Plus-X SNMP Channels.
- In the Source dialog column, click on the ...  button to open the Source dialog box.



The 'Source' dialog box has the following configuration:

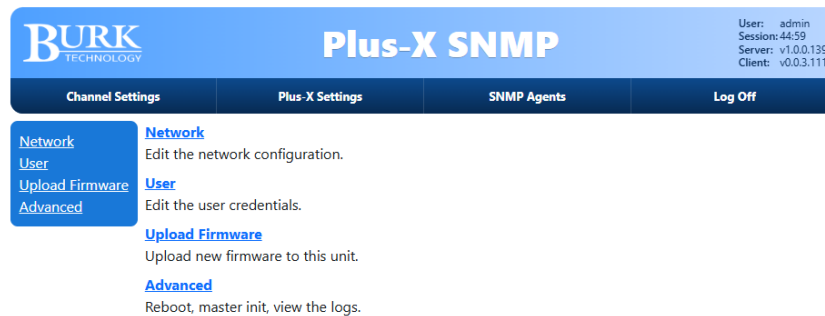
- Radio buttons:** Not Used, PlusBus, **Plus-X** (selected), Virtual Channel, Set by a Macro, Set by SNMP.
- Device:** Plus-X SNMP Main
- Channel:** A list box showing 'FM Fwd Pwr' (selected), 'FM Fwd Pwr', 'Mute Value', and 'RF Switch Time'.
- Comment:** (Empty)
- Meter 1:** (Empty)
- Reset checkbox:** ☐ Reset this channel to its default settings
- Buttons:** OK, Cancel

- Select the Plus-X option and select the Plus-X SNMP device. Then select the Plus-X SNMP Channel from the list that you want to bind to the ARC Plus channel and click OK.
- Repeat steps 1-3 for each Plus-X SNMP channels you need to bind. When you are finished with the Plus-X SNMP channel bindings, select File->Save to save the configuration to the ARC Plus.

The system is now configured for use on the ARC Plus. You can now configure alarms, macros and other functions using the Plus-X SNMP channels.

PLUS-X SETTINGS

Under the **Plus-X Settings** Menu, the operator can examine and modify network connection information including changing the system password and can configure the system's network settings, update firmware, download logs, reset to factory defaults and reboot the unit.



NETWORK SETTINGS

Click **Network**, under the **Plus-X Settings** Menu. Your browser will display a screen like the one below.

This screen appears when you first set up the Plus-X SNMP for operation on your network (see

LOG ON FOR THE First Time).

The screenshot shows the 'Plus-X SNMP' web interface. At the top, there is a header bar with the 'BURK TECHNOLOGY' logo on the left, the title 'Plus-X SNMP' in the center, and user/session information on the right: 'User: admin', 'Session: 44-58', 'Server: v1.0.0.139', and 'Client: v0.0.3.111'. Below the header is a navigation menu with four tabs: 'Channel Settings', 'Plus-X Settings', 'SNMP Agents', and 'Log Off'. The 'Plus-X Settings' tab is currently selected. On the left side of the main content area, there is a vertical sidebar with four links: 'Network' (highlighted in blue), 'User', 'Upload Firmware', and 'Advanced'. The main content area is titled 'Network Settings' and contains several input fields. The first section has 'IP Mode' with radio buttons for 'DHCP' and 'Static' (selected), followed by 'IP Address' (10.10.0.80), 'Subnet Mask' (255.255.255.0), 'Gateway' (10.10.0.1), and 'Hostname' (plus-x-snmp). A horizontal line separates this from the second section, which includes 'ARC Plus IP Address' (10.10.0.99) and 'Plus-X Port' (45000). At the bottom of the form are two buttons: 'Cancel' and 'Save & Apply'.

Network Settings	
IP Mode	☐ DHCP ☒ Static
IP Address	10.10.0.80
Subnet Mask	255.255.255.0
Gateway	10.10.0.1
Hostname	plus-x-snmp
ARC Plus IP Address	10.10.0.99
Plus-X Port	45000
Cancel Save & Apply	

On this screen you can enter or edit the IP address, subnet mask, gateway address and hostname of the Plus-X SNMP, as well as the IP address of your ARC Plus system.

USER SETTINGS

In the **User** settings screen you can change the system password or edit the Session timeout settings. The session timeout will automatically log you out after the time has expired. The session timeout timer is displayed in the top right corner of the web page and is reset when movement is detected on the page.

UPLOAD FIRMWARE SETTINGS

Contact Burk Technical Support for assistance with updating firmware.

ADVANCED SETTINGS

The advanced settings page lets you reboot the Plus-X SNMP or perform a master initialization to reset the unit to factory settings. It is also possible to download the system log file from this page.



Plus-X SNMP

User: admin
Session: 44:57
Server: v1.0.0.139
Client: v0.0.3.111

Channel Settings

Plus-X Settings

SNMP Agents

Log Off

[Network](#)
[User](#)
[Upload Firmware](#)
[Advanced](#)

Advanced

[Reboot](#)
Reboot the unit

[Master Init](#)
Perform a master init, except network settings

[Download Logs](#)
Zip and download log files

TECHNICAL SUPPORT

For technical support, please email support@burk.com or call our direct technical support line at 978-486-3711. We will be glad to assist you. The technical support office is open Monday – Friday, 9AM to 5PM Eastern time.

TECHNICAL SPECIFICATIONS

Dimensions:

1.25" (3.18 cm) H x 5.5" (13.97 cm) W x 5.25" (13.34 cm) D

Operating Temperature:

0 to 50 C

Power:

6VDC wall adapter (provided)

ARC Plus compatibility:

Requires ARC Plus Touch Version 5
or ARC Plus SL Version 5

SNMP Version:

Compatible with SNMP v1, v2c and v3

Managed devices:

Up to 32 managed devices

Meter channel OIDs:

Up to 256 Meter channel OIDs

Meter channel OID data types:

Integer with optional scale factor
IEEE floating point
7 Byte opaque

Status channel OIDs:

Up to 256 Status channel OIDs

Status channel OID data types:

Integer with programmable match value
String with programmable match text

Command channel OIDs:

Up to 256 Raise command OIDs
Up to 256 Lower command OIDs

Command OID data types:

Programmable integer value
Programmable unsigned integer value
Programmable counter value
Programmable text string
Programmable IP Address