

**Embedded Web-based Interface  
Supplemental Manual**

**SLA5800 & SLAMF Series Digital  
Mass Flow Controllers & Meters  
with EtherNet/IP™ and PROFINET™**

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INSTRUMENT

*Beyond Measure*

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## Models Affected

All models configured with Ethernet/IP or PROFINET communications.

## Summary

This manual is specific to the built-in web interface on SLA Series Ethernet/IP and PROFINET devices. It is recommended to review the Installation and Operation Manual (IOM) for the SLA Series and the Supplemental Manual for either the Ethernet/IP or PROFINET digital protocol that is being utilized.

The embedded web interface on the SLA Series Ethernet/IP and PROFINET devices is a powerful tool that can be utilized locally using an ethernet cable or remotely via the local area network. It allows reviewing and editing settings such as protocol addressing, alarm and warning thresholds, and more. The device can be controlled through the web interface as well. With the control level login credentials, you can change the active gas page, read the flow signal, give a controller a setpoint or perform a valve override among other features.

You can connect to the SLA device using a standard ethernet cable connected to the ethernet adapter on your computer (or a USB-Ethernet adapter connected to your computer), using a web browser (i.e. Chrome). If encountering connectivity issues with your device, refer to the following related knowledge base articles on the Brooks Instrument website.

Related Knowledge Base Articles:

[Changing IP Address using Built-in Web Interface](#)

[SLA EthernetIP and PROFINET – Finding the IP Address of a Device when the Value is Unknown](#)

## Initiating Communications through the Web Browser

By default, SLA Series EtherNet/IP™ MFC is shipped with DHCP enabled. If no DHCP server is available on the network, the device defaults to the following TCP/IP connections settings:

IP Address: 192.168.1.100  
NET Mask: 255.255.255.0  
Gateway Address: 0.0.0.0  
DNS1: 0.0.0.0  
DNS2: 0.0.0.0  
Domain Name: brooksinstrument.com  
Host Name: SLA

To configure the Brooks device using a web browser, connect it to a network or PC that is configured with the same subnet as the device (192.168.1.xxx).

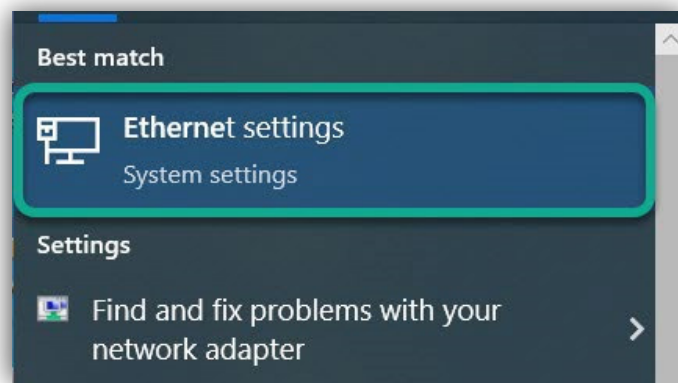
By default, most PC Network adapters are configured for Dynamic Host Configuration Protocol (DHCP). DHCP is a network management protocol that automatically configures IP addresses and communication parameters of network devices and is widely used in corporate or public networks.

In industrial control networks, the network settings of the client devices should always be static, meaning that they are not set dynamically by DHCP.

A direct connection to a PC will require a private network between the two devices. In that case, there is no DHCP server assigning addresses on this network, so the PC network card settings will need to be changed manually.

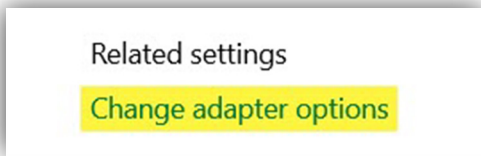
The following steps will detail how to configure the network adapter on a windows PC for static settings so that it can communicate with the SLA and utilize the embedded web interface.

On the PC, tap the Windows Key and begin typing “Ethernet” until you see the “Ethernet settings” result. Click on it to open the settings.

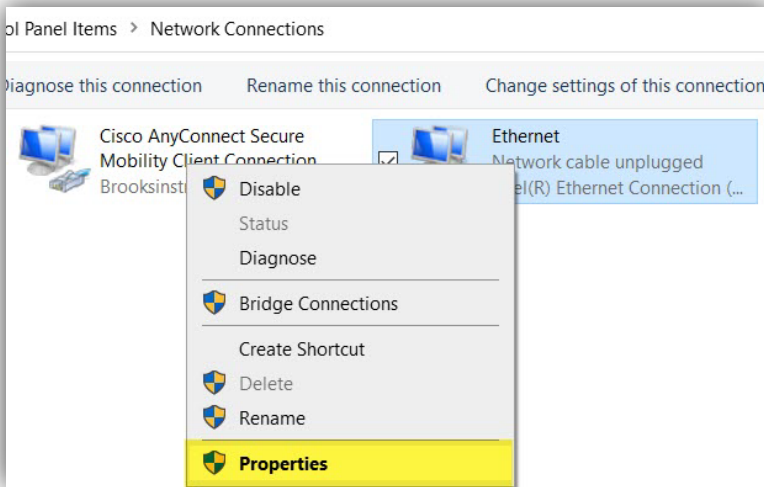


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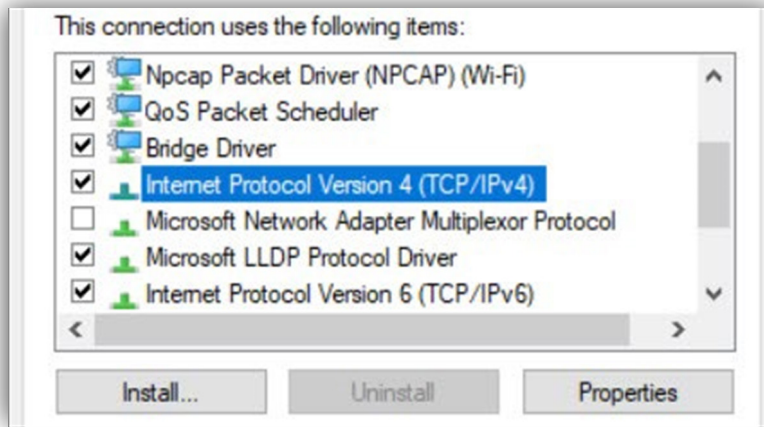
Choose “Change adapter options” in the upper right of the window that loads.



Then, right-click on the adapter you are using and choose “Properties”.

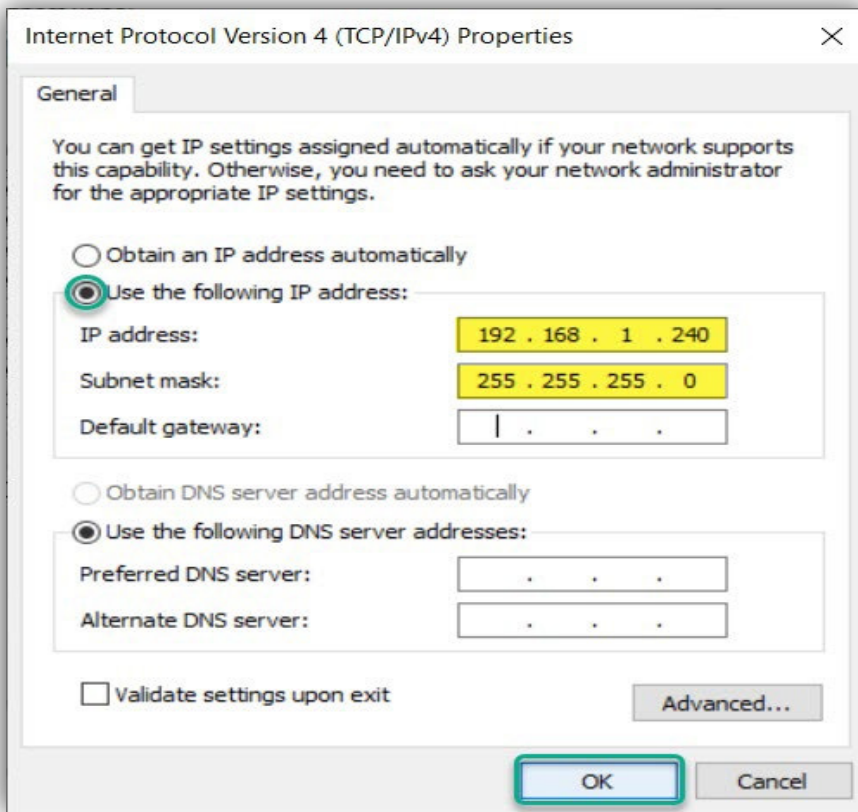


Double-click “Internet Protocol Version 4 (TCP/IPv4)” or select it and click “Properties”.



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Select “Use the following IP address” and type an IP that is in the same range as the MFC. The subnet mask below auto-populates and is ok for most configurations. Click “OK” on the two properties windows and close the settings windows.

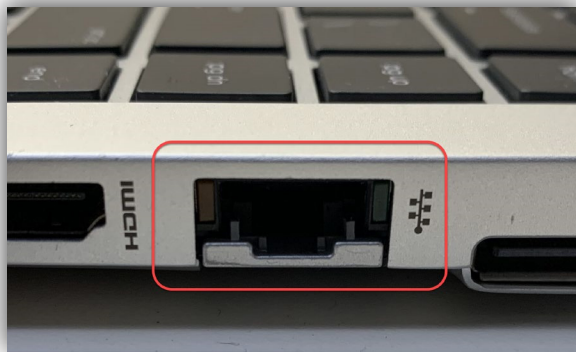


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A standard Ethernet patch cable is required to connect the SLA58 to your PC. An M12 to RJ45 cable is necessary for SLAMF models.



To a built-in network adapter:



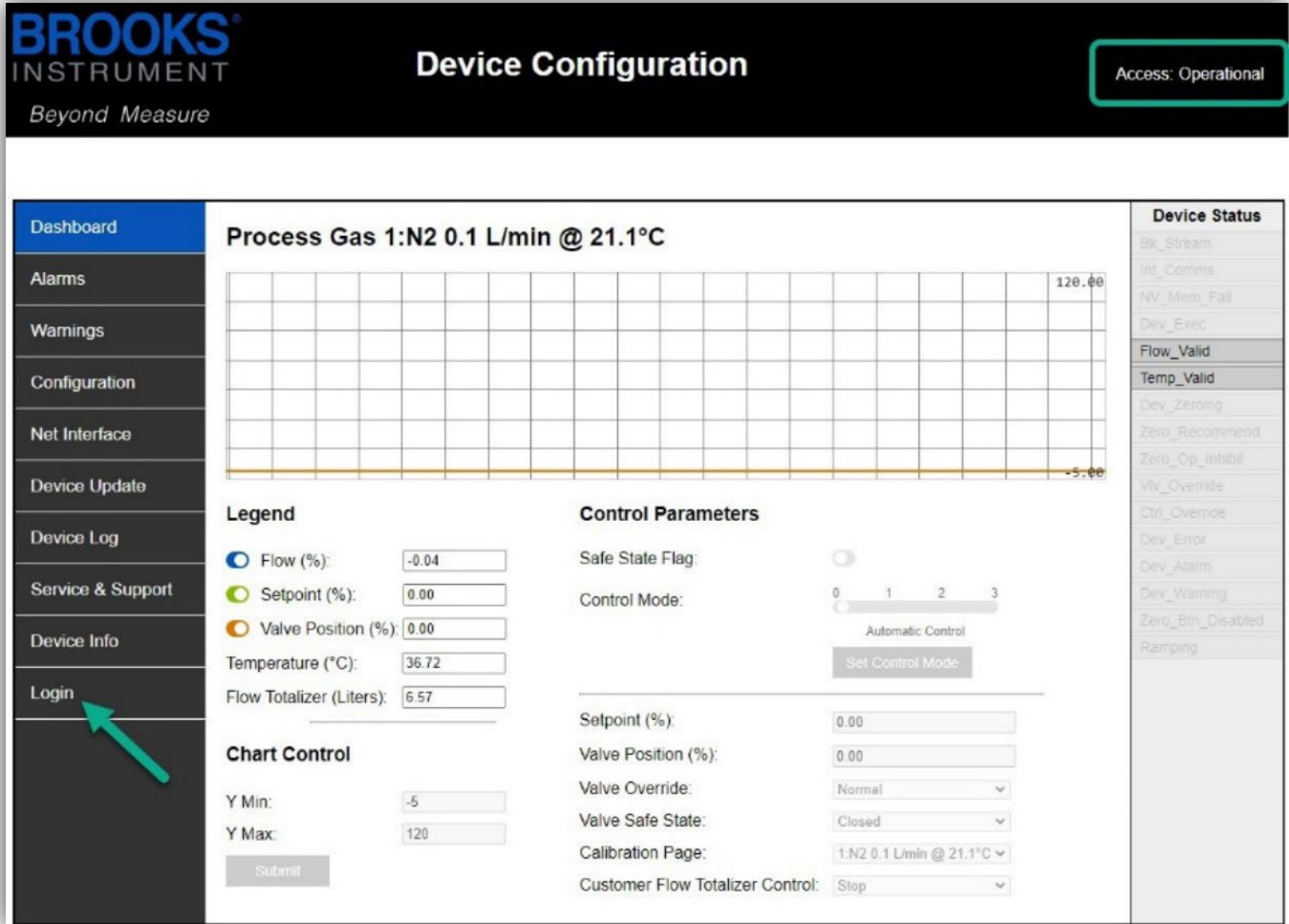
Or a USB network adapter:



Once the PC settings have been changed and the cable is physically connected between the PC adapter and the Brooks Instrument mass flow meter or controller, open a web browser and enter the IP address of the SLA (default 192.168.1.100) as the URL at the top. Hit "Enter" or click "Go" to load the SLA Embedded Web Interface.

Access Levels and Login

The Embedded Web Interface opens showing the dashboard screen with the “Operational” access level as shown in the upper right of the screen. This login level is read-only access.



The menu tree is always on the left side of the screen.  
The current device status is always on the right side of the screen.

To change the configuration, click the Login tab. On the Login page that loads, select a different access level from the dropdown box.

- Operational is view only.
- Configure allows basic device configuration.
- Control enables all functionality including controlling device flow on an MFC.

The default password for Configure is 'configure' and the default password for Control is 'control'.



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Choose the access level and enter the password. Click “Submit” and a success banner will display briefly at the top of the page.

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Device Configuration

Access: Control Logout

Login success. Permissions set to Control

Dashboard	Alarms	Warnings	Configuration	Net Interface	Device Update	Device Log	Service & Support	Device Info	Login																
<h3>Login</h3> <p>Access Level: <input type="text" value="Control"/></p> <p>Password: <input type="password"/></p> <p>Submit</p> <hr/> <h3>Session</h3> <p>Session Timeout(min): <input type="text" value="10"/></p> <p>Valid Range: 1 to 120 min(s) Fractional min(s) will be rounded down to the nearest whole min(s)</p> <p>Submit</p> <hr/> <div style="border: 2px solid green; border-radius: 15px; padding: 10px;"><h3>Change Password</h3><p>Access Level: <input type="text" value="Configure"/></p><p>Current Password: <input type="password"/></p><p>New Password: <input type="password"/></p><p>Confirm Password: <input type="password"/></p><p>8-12 characters. Valid characters: A-Z,a-z,0-9,?,!,\$,#,&amp;</p><p>Submit</p></div>																									
<h3>Device Status</h3> <table border="1"><tbody><tr><td>Bk_Stream</td></tr><tr><td>Int_Comms</td></tr><tr><td>NV_Mem_Fail</td></tr><tr><td>Dev_Exec</td></tr><tr><td>Flow_Valid</td></tr><tr><td>Temp_Valid</td></tr><tr><td>Dev_Zeroing</td></tr><tr><td>Zero_Recommend</td></tr><tr><td>Zero_Op_Inhibit</td></tr><tr><td>Vlv_Override</td></tr><tr><td>Ctrl_Override</td></tr><tr><td>Dev_Error</td></tr><tr><td>Dev_Alarm</td></tr><tr><td>Dev_Warning</td></tr><tr><td>Zero_Btn_Disabled</td></tr><tr><td>Ramping</td></tr></tbody></table>										Bk_Stream	Int_Comms	NV_Mem_Fail	Dev_Exec	Flow_Valid	Temp_Valid	Dev_Zeroing	Zero_Recommend	Zero_Op_Inhibit	Vlv_Override	Ctrl_Override	Dev_Error	Dev_Alarm	Dev_Warning	Zero_Btn_Disabled	Ramping
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Ramping																									

On this same page, it is possible to change the session timeout and change the password, if desired. There is also a “logout” button that appears in the upper right where the current access level is shown.

NOTE: If you change a password, ALWAYS record the changes with identifying information such as serial number and physical location. Without the password, you will not be able to utilize the embedded web interface functionality.

The Dashboard

Navigate back to “Dashboard” on the left menu. If you are logged in as Control access level, you can control the MFC from the Dashboard and see feedback similar to the graph screen in BEST.

Notice the radio button for “Safe State Flag” on the left side of the dashboard.

If it is gray, then the device is in safe state and the valve will be in the configured safe state.

By default, the valve safe state is closed.

To control flow, you must click the radio button to toggle it from gray to green, putting the device into executing mode.

Items such as setpoint, valve override and calibration page can now be changed.

**Configuring Device Attributes**

The various device “objects” such as the Flow Meter, Valve Driver, Flow Controller and Temperature Meter objects all have configurations that can be customized.

The embedded web interface is a powerful tool to quickly configure the alarms, warnings, errors, and data units within these objects.

Many alarms, warnings and errors have configurable magnitude, time, and hysteresis thresholds so that you can customize them for your system dynamics.

After selecting the “Configuration” menu, there are submenus for each object.

**Flow Meter Configuration**

Dashboard	Flow Meter	<b>Flow Meter Configuration</b>		<b>Flow Units</b>		<b>Device Status</b>	
Alarms		Flow Alarm Trip Point High (%):	<input type="text" value="140.00"/>	Unit Of Measure:	<input type="text" value="%"/>	Bk_Stream	
Warnings	Flow Meter General	Flow Alarm Trip Point Low (%):	<input type="text" value="-1.00"/>			Init_Comms	
Configuration		Flow Alarm Hysteresis (%):	<input type="text" value="0.00"/>	<input type="button" value="Submit Units"/>		NV_Mem_Fail	
Net Interface		Flow Alarm Settling Time (msec):	<input type="text" value="1000"/>			Dev_Exec	
Device Update		Flow Warning Trip Point High (%):	<input type="text" value="140.00"/>			Flow_Valid	
Device Log	Flow Meter Totalizer	Flow Warning Trip Point Low (%):	<input type="text" value="-1.00"/>			Temp_Valid	
Service & Support		Flow Warning Hysteresis (%):	<input type="text" value="0.00"/>			Dev_Zeroing	
Device Info		Flow Warning Settling Time (msec):	<input type="text" value="1000"/>			Zero_Recommend	
Login	Valve Driver	Zero Warning Time (hours):	<input type="text" value="0"/>			Zero_Op_Inhibit	
		Zero Warning Settling Time (sec):	<input type="text" value="30"/>			Viv_Override	
		Zero Warning Error Band (%):	<input type="text" value="0.00"/>			Ctrn_Override	
		Zero Warning Success Band (%):	<input type="text" value="0.00"/>			Dev_Error	
	Flow Control	No Flow Limit (%):	<input type="text" value="10.00"/>			Dev_Alarm	
		No Flow Settling Time (msec):	<input type="text" value="2000"/>			Dev_Warning	
		Choked Flow Limit (%):	<input type="text" value="50.00"/>			Zero_Btn_Disabled	
	Temperature	Choked Flow Settling Time (msec):	<input type="text" value="10000"/>			Ramping	
		Back Stream Flow Limit (%):	<input type="text" value="-20.00"/>				
		Back Stream Time Limit (msec):	<input type="text" value="30000"/>				
		Totalizer Overflow Threshold (Liters):	<input type="text" value="0.00"/>				
		<input type="button" value="Submit Parameters"/> <input type="button" value="Undo Changes"/>					

Flow Meter General Configuration

Dashboard	Flow Meter	<h3>Flow Meter General Configuration</h3> <p>Selected Calibration Page: <input type="text" value="1:N2 1.0 L/min"/></p> <p>Zero Op Duration (msec): <input type="text" value="10000"/></p> <p>Zero Minimum Drift Time (Hours): <input type="text" value="0"/></p> <p>Excess Drift Multiplier: <input type="text" value="1.00"/></p> <p>Excess Drift Adder: <input type="text" value="0.00"/></p> <p>Total Drift: <input type="text" value="-0.16"/></p> <p> <input type="button" value="Submit Parameters"/> <input type="button" value="Undo Changes"/> </p>		<h3>Flow Units</h3> <p>Unit Of Measure: <input type="text" value="%"/></p> <p><input type="button" value="Submit Units"/></p>		<h3>Device Status</h3> <ul style="list-style-type: none"> <li>Bk_Stream</li> <li>Int_Comms</li> <li>NV_Mem_Fail</li> <li>Dev_Exec</li> <li>Flow_Valid</li> <li>Temp_Valid</li> <li>Dev_Zeroing</li> <li>Zero_Recommend</li> <li>Zero_Op_Inhibit</li> <li>Viv_Override</li> <li>Ctrl_Override</li> <li>Dev_Error</li> <li>Dev_Alarm</li> <li>Dev_Warning</li> <li>Zero_Btn_Disabled</li> <li>Ramping</li> </ul>		
Alarms								
Warnings	Flow Meter General							
Configuration								
Net Interface								
Device Update	Flow Meter Totalizer							
Device Log								
Service & Support								
Device Info	Valve Driver							
Login								
		Flow Control						

Flow Meter Totalizer Configuration

Dashboard	Flow Meter	<b>Flow Meter Totalizer and Timers</b>		<b>Totalizer Units</b>		<b>Device Status</b>	
Alarms		Total Flow Hours:	<input type="text" value="0"/>	Unit Of Measure:	<input type="text" value="Liters"/>	Bk_Stream	Init_Comms
Warnings	Flow Meter General	Flow Totalizer (Liters):	<input type="text" value="22.59"/>		<input type="text" value="Liters"/>	NV_Mem_Fail	Dev_Exec
Configuration		Customer Flow Totalizer (Liters):	<input type="text" value="0.00"/>	<input type="button" value="Submit Units"/>		Flow_Valid	Temp_Valid
Net Interface		Overhaul Due (Hours):	<input type="text" value="26082"/>			Dev_Zeroing	Zero_Recommend
Device Update		Calibration Due (Hours):	<input type="text" value="8760"/>			Zero_Op_Inhibit	Viv_Override
Device Log	Flow Meter Totalizer	<input type="button" value="Submit Parameters"/> <input type="button" value="Undo Changes"/>				Ctrn_Override	Dev_Error
Service & Support	Valve Driver					Dev_Alarm	Dev_Warning
Device Info						Zero_Btn_Disabled	Ramping
Login	Flow Control						
	Temperature						

Valve Driver Configuration

Dashboard	Flow Meter	<b>Valve Configuration</b>		<b>Device Status</b>	
Alarms					
Warnings	Flow Meter General	Valve Warning Trip Point High (%):	<input type="text" value="120.00"/>	Int_Comms	
Configuration		Valve Warning Trip Point Low (%):	<input type="text" value="-1.00"/>	NV_Mem_Fail	
Net Interface		Valve Warning Hysteresis (%):	<input type="text" value="0.00"/>	Dev_Exec	
Device Update		Valve Safe State:	<input type="text" value="Closed"/>	<b>Flow_Valid</b>	
Device Log	Flow Meter Totalizer	Valve Safe Value (%):	<input type="text" value="0.00"/>	Temp_Valid	
Service & Support		<input type="button" value="Submit Parameters"/> <input type="button" value="Undo Changes"/>		Dev_Zeroing	
Device Info	Valve Driver			Zero_Recommend	
Login				Zero_Op_Inhibit	
	Flow Control			Viv_Override	
	Temperature			Ctrl_Override	
				Dev_Error	
				Dev_Alarm	
				Dev_Warning	
				Zero_Btn_Disabled	
				Ramping	

Flow Controller Configuration

Dashboard	Flow Meter	<b>Flow Control Configuration</b>		<b>Control Units</b>	<b>Device Status</b> Bk_Stream Ini_Comms NV_Mem_Fail Dev_Exec <b>Flow_Valid</b> <b>Temp_Valid</b> Dev_Zeroing Zero_Recommend Zero_Op_Inhibit Viv_Override Ctrn_Override Dev_Error Dev_Alarm Dev_Warning Zero_Btn_Disabled Ramping
Alarms		Control Warning Settling Time (msec):	<input type="text" value="5000"/>		
Warnings	Flow Meter General	Control Warning Error Band (%):	<input type="text" value="200.00"/>	<input type="button" value="Submit Units"/>	
<b>Configuration</b>		Ramp Time (msec):	<input type="text" value="0"/>		
Net Interface		Setpoint Limit (%):	<input type="text" value="12000.00"/>		
Device Update		Setpoint Limit Action:	<input type="text" value="None"/>		
Device Log	Flow Meter Totalizer	<input type="button" value="Submit Parameters"/> <input type="button" value="Undo Changes"/>			
Service & Support	Valve Driver				
Device Info					
Login	<b>Flow Control</b>				
	Temperature				

### Temperature Meter Configuration

Dashboard	Flow Meter	<b>Temperature Configuration</b>		<b>Temperature Units</b>		<b>Device Status</b>	
Alarms		Temp Warning Trip Point High (°C):	<input type="text" value="273.00"/>	Unit Of Measure:	<input type="text" value="Celsius"/>	Bk_Stream	Init_Comms
Warnings	Flow Meter General	Temp Warning Trip Point Low (°C):	<input type="text" value="-273.00"/>			NV_Mem_Fail	Dev_Exec
Configuration		Temp Warning Settling Time (msec):	<input type="text" value="0"/>	<input type="button" value="Submit Units"/>		Flow_Valid	Temp_Valid
Net Interface		<input type="button" value="Submit Parameters"/>	<input type="button" value="Undo Changes"/>			Dev_Zeroing	Zero_Recommend
Device Update	Flow Meter Totalizer						
Device Log							
Service & Support	Valve Driver						
Device Info							
Login	Flow Control						
		Temperature					
						Ramping	



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Alarms and Warnings are disabled by default and must be enabled after configuring them. They can be enabled by navigating to the Alarms or Warnings menu items and toggling the radio buttons to green.

## Alarms

Dashboard	Alarms	Off/On	Device Status
Alarms	Low Flow Alarm	<input type="radio"/>	Bk_Stream
Warnings	High Flow Alarm	<input type="radio"/>	Int_Comms
Configuration	No Flow Alarm	<input type="radio"/>	NV_Mem_Fail
Net Interface	Choked Flow Alarm	<input type="radio"/>	Dev_Exec
Device Update	Invalid Calibration Page Select	<input type="radio"/>	Flow_Valid
Device Log	NV RTB Write Fail	<input type="radio"/>	Temp_Valid
Service & Support	Using Backup NV Memory	<input type="radio"/>	Dev_Zeroing
Device Info	Temperature Sensor Fail	<input type="radio"/>	Zero_Recommend
Login	<input type="radio"/> Toggle All		Zero_Op_Inhibit
			Viv_Override
			Ctrl_Override
			Dev_Error
			Dev_Alarm
			Dev_Warning
			Zero_Btn_Disabled
			Ramping

Dashboard	Alarms	Off/On	Device Status
!! Alarms	Low Flow Alarm	<input type="radio"/>	Bk_Stream
Warnings	High Flow Alarm	<input type="radio"/>	Int_Comms
Configuration	!! No Flow Alarm	<input checked="" type="radio"/>	NV_Mem_Fail
Net Interface	Choked Flow Alarm	<input type="radio"/>	Dev_Exec
Device Update	Invalid Calibration Page Select	<input type="radio"/>	Flow_Valid
Device Log	NV RTB Write Fail	<input type="radio"/>	Temp_Valid
Service & Support	Using Backup NV Memory	<input type="radio"/>	Dev_Zeroing
Device Info	Temperature Sensor Fail	<input type="radio"/>	Zero_Recommend
Login	<input type="radio"/> Toggle All		Zero_Op_Inhibit
			Viv_Override
			Ctrl_Override
			Dev_Error
			Dev_Alarm
			Dev_Warning
			Zero_Btn_Disabled
			Ramping

Warnings

Dashboard	Warnings	Off/On	Warnings	Off/On	Device Status
Alarms	Low Flow Warning	<input type="radio"/>	Calibration Due Warning	<input type="radio"/>	Bk_Stream
Warnings	High Flow Warning	<input type="radio"/>	Totalizer Overflow Warning	<input type="radio"/>	Int_Comms
Configuration	Choked Flow Warning	<input type="radio"/>	Overhaul Due Warning	<input type="radio"/>	NV_Mem_Fail
Net Interface	Excessive Zero Drift Warning	<input type="radio"/>	High Temperature Warning	<input type="radio"/>	Dev_Exec
Device Update	Bad Zero Warning	<input type="radio"/>	Low Temperature Warning	<input type="radio"/>	Flow_Valid
Device Log	Valve High Warning	<input type="radio"/>	Supply Volts High Warning	<input type="radio"/>	Temp_Valid
Service & Support	Valve Low Warning	<input type="radio"/>	Supply Volts Low Warning	<input type="radio"/>	Dev_Zeroing
Device Info	Valve Ctrl Warning	<input type="radio"/>			Zero_Recommend
Login	Setpoint Deviation Warning	<input type="radio"/>			Zero_Op_Inhibit
	Setpoint Overrange Warning	<input type="radio"/>			Vlv_Override
	Setpoint Limited Warning	<input type="radio"/>			Ctrl_Override
	<input type="radio"/> Toggle All				Dev_Error
					Dev_Alarm
					Dev_Warning
					Zero_Btn_Disabled
					Ramping

Dashboard	Warnings	Off/On	Warnings	Off/On	Device Status
Alarms	Low Flow Warning	<input type="radio"/>	Calibration Due Warning	<input type="radio"/>	Bk_Stream
! Warnings	High Flow Warning	<input type="radio"/>	Totalizer Overflow Warning	<input type="radio"/>	Int_Comms
Configuration	Choked Flow Warning	<input type="radio"/>	Overhaul Due Warning	<input type="radio"/>	NV_Mem_Fail
Net Interface	Excessive Zero Drift Warning	<input type="radio"/>	High Temperature Warning	<input type="radio"/>	Dev_Exec
Device Update	Bad Zero Warning	<input type="radio"/>	Low Temperature Warning	<input type="radio"/>	Flow_Valid
Device Log	Valve High Warning	<input type="radio"/>	Supply Volts High Warning	<input type="radio"/>	Temp_Valid
Service & Support	Valve Low Warning	<input type="radio"/>	Supply Volts Low Warning	<input type="radio"/>	Dev_Zeroing
Device Info	Valve Ctrl Warning	<input type="radio"/>			Zero_Recommend
Login	! Setpoint Deviation Warning	<input checked="" type="radio"/>			Zero_Op_Inhibit
	Setpoint Overrange Warning	<input type="radio"/>			Vlv_Override
	Setpoint Limited Warning	<input type="radio"/>			Ctrl_Override
	<input type="radio"/> Toggle All				Dev_Error
					Dev_Alarm
					Dev_Warning
					Zero_Btn_Disabled
					Ramping

## Changing Device Network Settings

To configure the network parameters of the device, click the Net Interface tab.

For Ethernet/IP devices, you will need to change:

- IP address – most configurations should use a static IP. DHCP option is available.
- Subnet mask
- Default gateway
- Device name
- You might also configure DNS servers and a domain name.

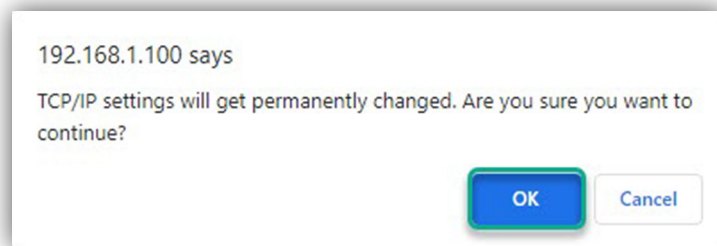
For PROFINET devices, you will need to change:

- The device name.
- Choose a unique name that conforms to the PROFINET International (PI) naming rules.
- You should also configure a static IP address and a subnet mask. This will allow the use of the embedded web interface for each unique device.
- Siemens recommends that you do not use an IP address in the 192.168.x.241 to 192.168.x.250 range for client devices because programming devices can be automatically assigned addresses in this range if necessary.

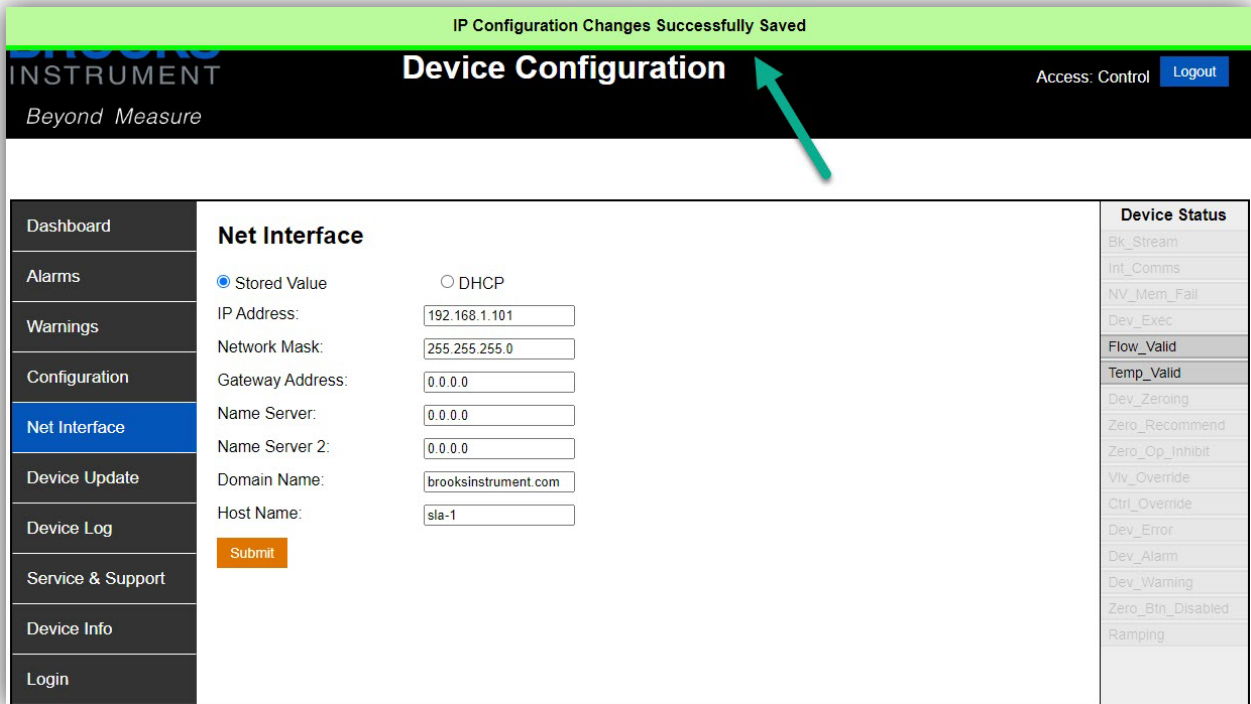
By default, DHCP is selected. To manually configure the network settings, select the 'Stored Value' radio button.

The network configuration fields will become active. Click 'Submit' after setting the network configuration.

A pop-up confirmation window will appear. Click "OK"



A success banner will be displayed briefly at the top of the page.



NOTE: Once the settings have been changed, the new TCP/IP address will need to be reentered in the URL field of the browser to reconnect with the device and confirm the network settings.

NOTE: We recommend labeling the device with the new communication settings and recording the changes with identifying information such as serial number and physical location. It will be very difficult to recover this information without the diagnostic cable and BEST Software.

We created a knowledgebase article describing some alternative methods to find the IP address of a device that is unknown which may be helpful in this scenario. The article can be found on our website here:

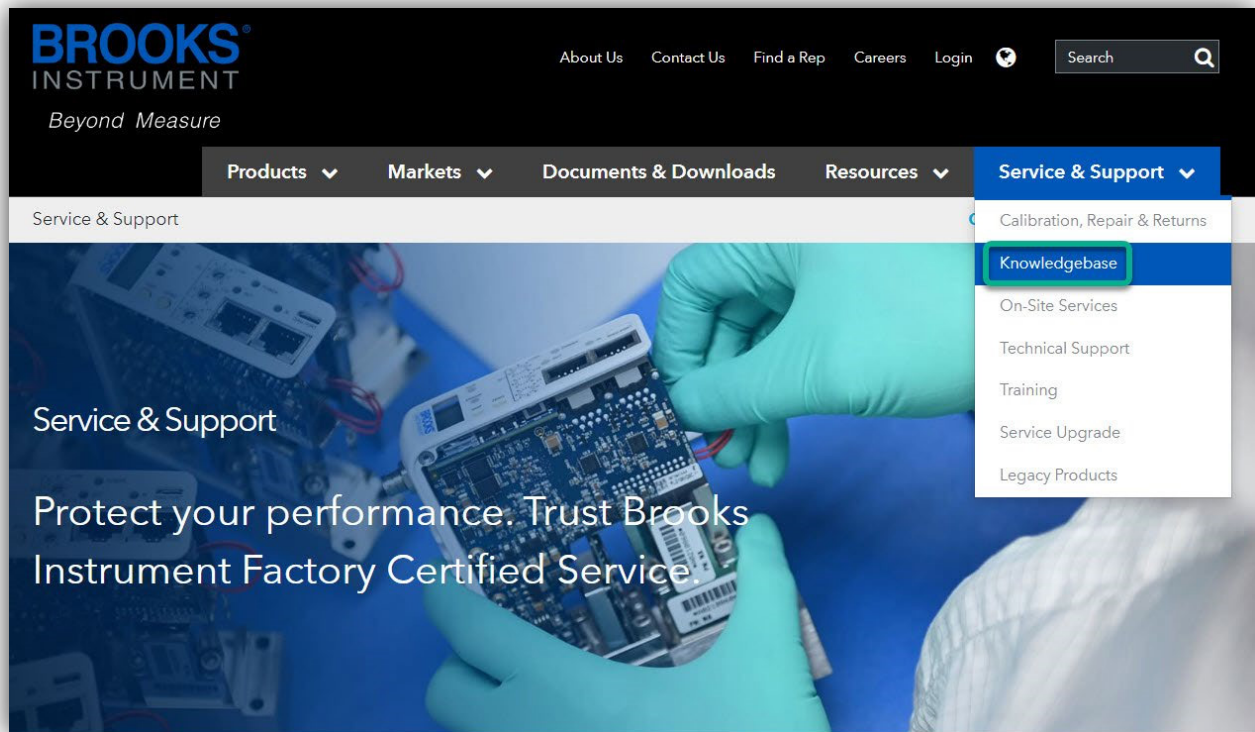
[SLA Ethernet/IP and PROFINET – Finding the IP Address of a Device when the Value is Unknown](#)

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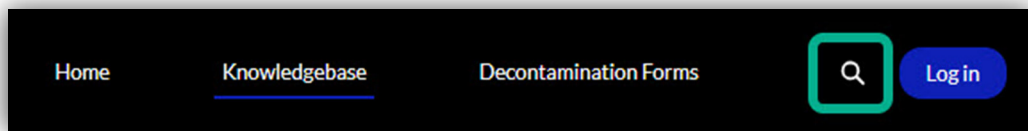
## Getting Help

We recommend starting with the Installation and Operation Manual (IOM) and the Supplemental manual for the digital communication protocol, if applicable. These documents are searchable so CTRL+F can be used in the PDF viewer to search for specific terms within the document.

After reading the manuals, we recommend utilizing the Knowledgebase section of our website. Navigate to “Service & Support” and select “Knowledgebase”.



On the Knowledgebase landing page, you can browse the articles or click the magnifying glass in the upper right corner to search.



Search by product name such as “SLA” or “GT1600”, digital protocol such as “Ethernet/IP” or “PROFINET”, or by specific article numbers.

After you have reviewed the relevant content for your product, if you still need any technical support please contact Brooks Instrument Technical Services at 215-362-3798 or via email at [Brooks.TechSupport@BrooksInstrument.com](mailto:Brooks.TechSupport@BrooksInstrument.com)

## LIMITED WARRANTY

Visit [www.BrooksInstrument.com](http://www.BrooksInstrument.com) for the terms and conditions of our limited warranty.

## BROOKS SERVICE AND SUPPORT

Brooks is committed to assuring all of our customers receive the ideal flow solution for their application, along with outstanding service and support to back it up. We operate first class repair facilities located around the world to provide rapid response and support. Each location utilizes primary standard calibration equipment to ensure accuracy and reliability for repairs and recalibration and is certified by our local Weights and Measures Authorities and traceable to the relevant International Standards.

Visit [www.BrooksInstrument.com](http://www.BrooksInstrument.com) to locate the service location nearest to you.

## START-UP SERVICE AND IN-SITU CALIBRATION

Brooks Instrument can provide start-up service prior to operation when required.

For some process applications, where ISO-9001 Quality Certification is important, it is mandatory to verify and/or (re)calibrate the products periodically. In many cases this service can be provided under in-situ conditions, and the results will be traceable to the relevant international quality standards.

## SEMINARS AND TRAINING

Brooks Instrument can provide seminars and dedicated training to engineers, end users and maintenance persons.

*Please contact your nearest sales representative for more details.*

Due to Brooks Instrument's commitment to continuous improvement of our products, all specifications are subject to change without notice.

## TRADEMARKS

Brooks is a trademark of Brooks Instrument, LLC  
All other trademarks are the property of their respective owners.



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**INSTRUMENT**  
*Beyond Measure*