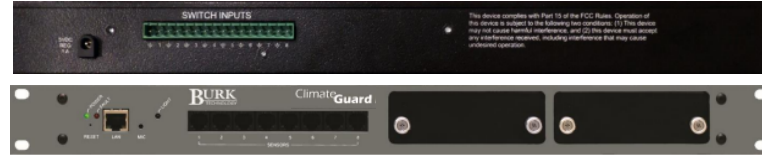


This Quick Start Guide will show you how to set up the Climate Guard in five simple steps. For detailed configuration and setup information, visit www.burk.com/downloads, select the Climate Guard support page and download the Climate Guard & Plus-X EM Installation and Operation Manual.

1 UNPACKING

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

- (1) Climate Guard Unit
- (1) 16-Pin Terminal Block
- (1) Ethernet Cable
- (1) Power Cord



CUSTOMER SUPPORT

PHONE:

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

EMAIL:

support@burk.com

2 NETWORK SETUP

1. Plug in the power cord and connect the Climate Guard 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 CLIMATEGUARD/ 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 Climate Guard will assign itself the default IP address 192.168.0.100. You will need to connect a PC with a web browser to the Climate Guard 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 Climate Guard 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 Climate Guard. 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 Climate Guard default IP address of 192.168.0.100.
5. The login screen will then be displayed. Enter the username admin and the password "password".
6. You will be prompted that the password is weak and will be recommended to change it. To configure user account passwords, click the Users link on the Setup page.
7. The first screen displayed after initial login is an abbreviated Network page requiring you to enter a static IP address for the Climate Guard. 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 Climate Guard should be connected to the normal LAN.

9. Log in to the Climate Guard 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 CLIMATEGUARD so conflicts will not occur if multiple 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 factor default setting can be used.
- d. **Gateway** – Check with your network administrator otherwise the factory default setting can be used.
- e. **HTTP Port** – Check with your network administrator. The factory default setting is port 80.
- f. **Primary and Backup DNS** - Check with your IT administrator otherwise the value 8.8.8.8 can be used.

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 INSTALLING SENSORS AND SWITCH INPUTS

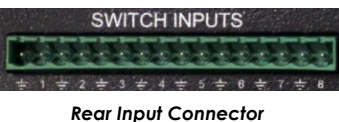
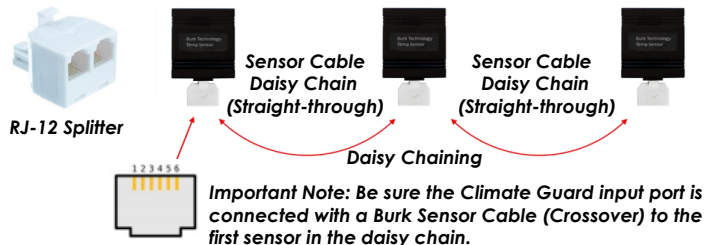
The Climate Guard supports digital sensors for temperature and humidity monitoring, powered switch inputs such as motion sensors and smoke detectors and unpowered switch inputs like door contacts providing up to 64 sensors within the Climate Guard.

Wiring digital sensors and powered switch inputs

External sensors connect to the front panel Sensor inputs and the rear panel Switch Inputs. The pinouts for the front panel Sensor inputs are as follows:

Sensor input cabling may be extended using RJ-12 Couplers and additional Sensor Cables, available from Burk Technology. Digital sensors may be daisy chained using Burk part numbers: RJ-12 Splitter, Sensor Cable, and Sensor Cable - Daisy Chain as shown in the diagram. The Burk Sensor Cable has cross-over wiring, while Sensor Cable-Daisy Chain has straight-through wiring.

Pin	Signal	Temperature Sensors	Other Digital Sensors	Powered Switch Inputs	Unpowered Switch Inputs
1	Ground		✓	✓	✓
2	Status Signal			✓	✓
3	Data	✓	✓		
4	Ground	✓	✓	✓	
5	Unused				
6	+12V		✓	✓	



Rear Switch Inputs

The Climate Guard has rear panel connections for eight unpowered Switch Inputs such as door contacts. These require a two-wire connection. Connect one wire to ground and the other to the numbered input terminal using the included 16-pin "Phoenix" type connector.

5 SNMP CONFIGURATION

To configure Climate Guard's SNMP features, use the SNMP link on the Setup page and check the SNMP check box to enable SNMP.

Click the link labeled Download the Climate Guard MIB to download the unit's MIB file. The MIB file defines the SNMP OIDs that your SNMP Manager can use when communicating with Climate Guard.

Climate Guard supports up to three SNMP managers. In the event of an alert, Climate Guard will send an SNMP trap to each manager.

For each manager, enter the IP address or hostname and port number (usually 162). Click the Save button to save your settings.

OID Mapping

OID 1

OID 2

Select OID Mapping from the Setup page to assign specific SNMP Object Identifiers to individual sensors. This OID assignment capability allows you to directly control which sensors are associated with particular functions when integrating Climate Guard with third party SNMP management systems.

SNMP

[Download the Climate Guard MIB](#)

SNMP enabled

Port number:

Community string:

SNMP Managers

Manager	Manager IP/Host	Port
1:	<input type="text"/>	<input type="text" value="162"/>
2:	<input type="text"/>	<input type="text" value="162"/>
3:	<input type="text"/>	<input type="text" value="162"/>

4 CONFIGURE SENSOR INPUTS

Both digital sensors and switch inputs appear automatically on the Sensors page of the Climate Guard web interface. Once the wiring of the sensors and switch inputs is complete, you can begin to configure the inputs. Click the Edit button next to a digital sensor to edit its settings.

The following settings are configurable:

Setting	Description
Sensor name	Enter a name to identify this sensor. Note that you may change this name without affecting your logged data or any other functionality.
Alert enable	Check this checkbox to enable alerting for this sensor.
In alert delay	The <i>in alert delay</i> is the number of seconds this sensor must be outside its thresholds before it will cause an alert.
Out alert delay	The <i>out alert delay</i> is the number of seconds this sensor's value must be back in tolerance before it may cause another alert.
Upper threshold	Enter the upper threshold value at which this sensor should go into alert.
Lower threshold	Enter the lower threshold value at which this sensor should go into alert.
Hysteresis	Enter the amount by which this sensor must cross back into tolerance before exiting the alert state.

6 CONFIGURE EMAIL SETTINGS AND NOTIFICATIONS

To set the email (SMTP) settings for Climate Guard, use the Email link on the Setup page. The following parameters are available:

- Email server** - Enter the IP address or hostname of your SMTP server.
- Email port** - Enter the port number used by your SMTP server or accept the default value of 587.
- From** - Enter a valid email address to be used as the from address for Climate Guard notifications.
- SMTP server requires security** - Check this checkbox if your SMTP server requires you to log on to send email.
- Username** - Enter the username to log into the email server. Usually this is your email address.
- Password** - Enter your SMTP password or application password if applicable (i.e. gmail SMTP servers).
- SMTP protocol** - Select Cloud Service to make use of the Burk Email Cloud Service.
- Cloud Server** - The default address for the Burk Email Cloud server is cloud.burk.com.
- Cloud port** - The default port for the Burk Email Cloud server is 4095.

Notifications

[Add new email address...](#)

Email Address	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Start Time	End Time	
it@example.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	00:00:00	24:00:00	Delete Test

Climate Guard supports email notifications for up to 10 email addresses. Climate Guard will email alert messages to the addresses that you specify, according to the schedules that you configure. To configure notifications, use the Notifications link on the Setup page.

Refer to the Climate Guard & Plus-X EM Installation and Operation Manual for further information on configuring and operating the Climate Guard unit.