COPELAND

XIG100 – 1To1 GATEWAY

This guide provides some simple information for registering on the portal https:// dama.copelandconnected.com and for gateway Wi-Fi registration and configuration. For further information and details, please contact our After Sales Service (**service.dixell@copeland.com**).

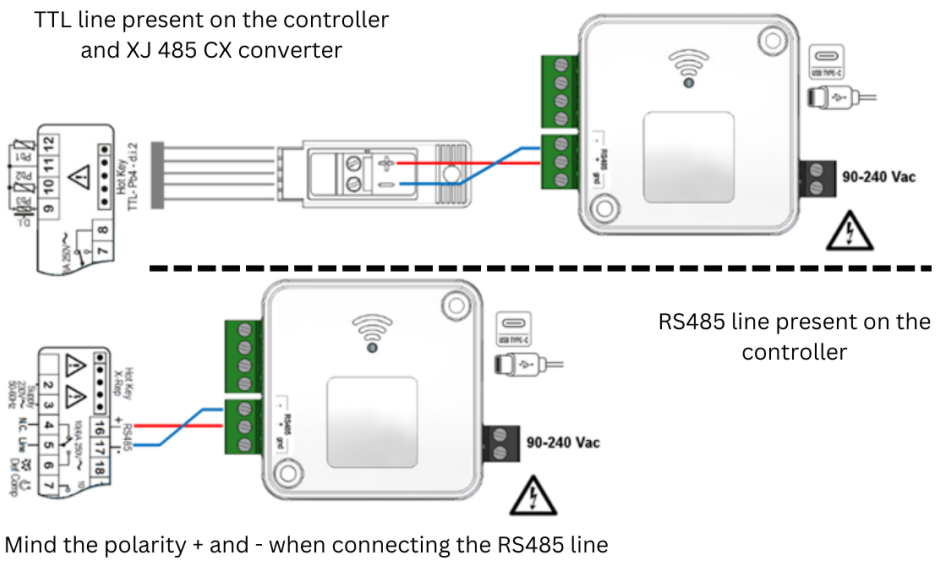
SAFETY INFO

- This manual is part of the product and should be kept near the instrument for easy and quick reference.
- The instrument shall not be used for purposes different from those described hereunder. It cannot be used as a safety device.
- Copeland Controls S.r.l. reserves the right to change the composition of its products, even without notice, ensuring the functionality.
- In case of failure or faulty operation, contact the local distributor or "Copeland Controls S.r.l." with a detailed description of the fault.
- The instrument must not be opened.
- Check the application limits and the correct power supply voltage before proceeding.
- Do not expose to water or moisture: use the controller only within the operating limits avoiding sudden temperature changes with high atmospheric humidity to avoid condensation
- Warning: disconnect the power supply and all other electrical connections before any kind of maintenance.

PORTAL REGISTRATION

- Navigate to https://dama.copelandconnected.com/
- Click on Sign up now link to create a new account (the e-mail address used must already be in the subscription)
- Follow the steps for the registration (including code verification)

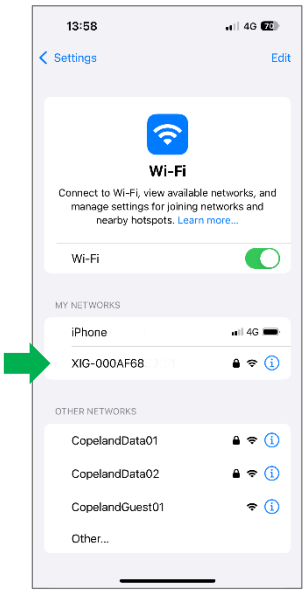
FIELD ASSEMBLY WIRING



WI-FI CONFIGURATION

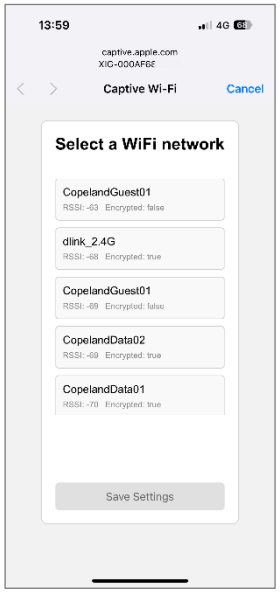
The device allows Wi-Fi configuration through a web interface available in Access Point mode. After connecting to the Access Point, the device will automatically open the Gateway Wi-Fi Configuration page. If the page doesn't appear, open a browser and go to: **http://192.168.1.1**.
The steps are illustrated in the following screenshots

Search for Wi-Fi Network" XIG-xxxxxxxxxxx **(Gateway ID)"**

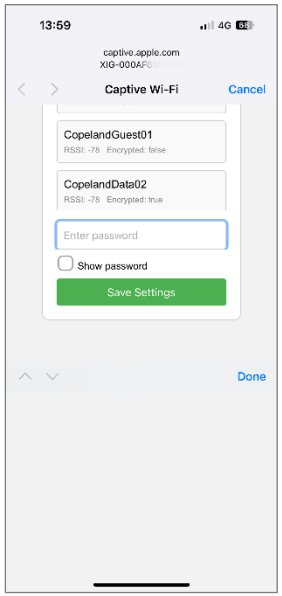


Connect to the Wi-Fi with fixed password: **12345678**

Select a Wi-Fi network from the list



Enter the Wi-Fi password and tap on "**Save And Reboot"**



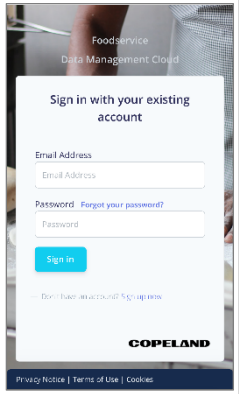
The gateway is now configured to use the selected Wi-Fi network for connecting to the cloud.

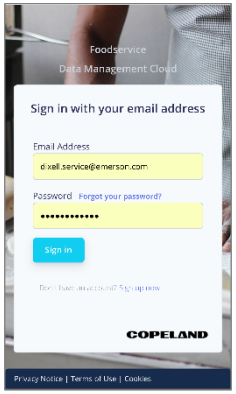
NOTE: the gateway will complete the "first cloud connection procedure" in few minutes.

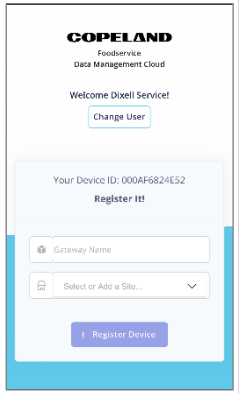
GATEWAY REGISTRATION

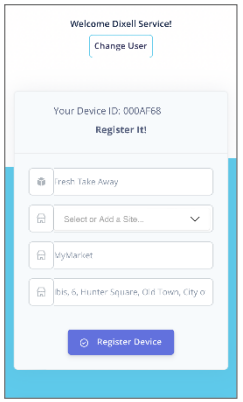
Follow these steps:

1. Scan the QR code with your smartphone.
2. Open the link and proceed with the Gateway registration
3. Connect RS485 and Power Supply - switching on the Gateway









TROUBLESHOOTING

What should I do if my gateway has the wrong Wi-Fi password?

Use a small screwdriver to press and hold the button through the hole (located at the base of the Wi-Fi symbol) for about 5 seconds while the gateway is powered on and running normally.
The device will restart in Access Point Mode, allowing you to reconnect as described in the Wi-Fi Configuration section

Why did I lose connection with the Gateway Access Point while setting it up?

The Access Point Mode remains active for 10 minutes. After this time, it automatically turns off for security reasons. If your gateway is new (with no settings configured), simply power cycle the device to restart the setup procedure.
If it's already configured, use a small screwdriver to press the reset button through the hole (located at the base of the Wi-Fi symbol), this will reactivate Access Point Mode.

What information is required to register a new gateway? What are the Gateway Name and Site Name?

A site is a collection of gateways. Each site can contain multiple gateways, making it the entity that describes the location where the gateway is installed. For this reason, both the gateway and the site need a name to make them easier to identify when navigating the portal.

LED behavior

The device indicates its operating state through LED blinking: two quick synchronization blinks followed by 1 to 6 slow blinks, where the number of slow blinks corresponds to the operating mode (e.g., 1 blink for mode 1, 2 blinks for mode 2, etc.)

LED	Short Description	If You See This…	If It Hangs Here…
Mode 1	Connecting to Wi-Fi	The gateway is attempting to connect to the Wi-Fi network but hasn't succeeded yet. This might be due to a weak signal, incorrect credentials, or other connectivity issues	Check that the network is 2.4 GHz (as only 2.4 GHz is supported) and re-enter the Wi-Fi password if necessary. Restart the hotspot configuration if needed
Mode 2	Verifying Internet Connectivity	The gateway is connected to the Wi-Fi network, but it is still verifying the internet connection	Ensure the gateway can access the internet, which may require the router to assign an IP address via DHCP. Note: Only DHCP is supported, and NTP must function correctly for time synchronization
Mode 3	Getting Cloud Authorization	The gateway has internet access and is attempting to connect to the cloud but isn't yet authorized or it's waiting for the first assignment of the license	This may occur if the cloud registration is incomplete. Ensure the QR code registration process was followed properly, as the gateway might not be registered with the cloud
Mode 4	Device Discovery in progress	The gateway is scanning for a connected controller on the RS485 line	Confirm the RS485 connection is stable
Mode 5	Description File Not Available	The controller is connected to the gateway, but its specific configuration is unsupported or missing	Try restarting the controller discovery. If issues persist, contact Technical Support to request a configuration update for the device
Mode 6	Normally Working	Everything is working correctly, with communication established between the gateway and the controller	There should be no issues; this mode indicates normal operation. RS485 LED should blink continuously during data transfer
		Configuration Mode	
Slow Blinking	Hotspot active	The Wi-Fi configuration hotspot is active and ready to connect	Connect your mobile phone to the hotspot to begin Wi-Fi setup
Fast Blinking	Hotspot off	The hotspot was automatically disabled after 10 minutes of inactivity	Restart to re-enable the hotspot

TECHNICAL SPECIFICATIONS

FEATURES	DESCRIPTION
Housing	Self-extinguishing PC/PC+ABS
Dimensions	61 mm x 61 mm x 29 mm depth
Mounting device	2 mounting holes for screws up to Φ 4 mm
Degree of Protection	IP20
Power Supply	90÷240 Vac and/or 5Vdc (depending on model)
Overvoltage Category	II
Rated Power	5VA
Rated Impulse Voltage	2500V
Software Class	A
Terminal blocks / Terminal Connections	Plug-in terminal blocks, wire section between 0,5 and 2,5 mm^2 Max tightening force: 0.3 N/m for 3,5mm pitch, 0.4 N/m for 5,0mm pitch
Pollution Degree	2, non-condensing humidity
Ambient Operating Temperature and Humidity	-20T55°C; 20-85 rH% (non-condensing humidity)
Shipping and storage temperature	-20T85°C; 20-85 rH% (non-condensing humidity)
Enclosure Flammability	UL 94 V-0

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