



CHROMALOX IIoT SOLUTIONS



OVERVIEW

Industry 4.0 is coming.

Every day more industrial equipment is connected to the Internet, sending data to the cloud. With this information, Chromalox and its partners and service teams can get real-time information about equipment installed in the field.

Access to real-time operational data transforms business.

Customers can securely access and remotely monitor their entire portfolio of Chromalox products from any location to ensure they are performing correctly. If you provide access, our service team can remotely diagnose issues saving your facility time and money.

Not ready for the cloud yet, but want scalability for the future?

Despite offering an AWS secure cloud service, some plants do not allow cloud connected devices. The Chromalox IIoT device can be used on your own LAN or BACnet for connectivity to the control room and store 30 days of critical diagnostic information.

Have your own cloud already?

The Chromalox IIoT solution can push data securely to 3rd party cloud services using RESTful API.

SECURITY

CHROMALOX FIELDVIEW PORTAL PROVIDES SECURE REMOTE CONNECTIVITY

with all Chromalox IIoT gateways, giving users the ability to configure, update and support all connected industrial devices and integrate them with their business applications and other cloud-based services. With these capabilities, industrial facilities are able to run smarter, utilizing real-time device data analytics to drive better decision making and transform the way they do business.

- ▶ Amazon Web Services (AWS) is a recognized leader in providing cloud Infrastructure-as-a-Service (IaaS) with broad security certification and accreditation.
- ▶ Chromalox Cloud Platform is hosted on AWS.
- ▶ Chromalox takes advantage of the AWS security infrastructure best practices and IT security standards which includes: SOC 1/SSAE 16/ISAE 3402 (formerly SAS 70), SOC2, SOC3, FISMA, DIACAP, FedRAMP, DOD CSM Levels 1-5, PCI DSS Level 1, ISO 9001, ISO 27001, ITAR, FIPS 140-2 and MTCS Level 3
- ▶ The cloud platform has no firewall dependencies through HTTPS, and instead utilizes TLS/SSL (Transport Layer Security/ Secure Sockets Layer) to ensure data security - port 80 and 443
- ▶ All traffic, between the SMC Cloud and the on-premises IoT gateway, is encrypted using TLS 1.2.
- ▶ Any HTTP web traffic sent to the SMC Cloud portal using TCP port 80 is automatically redirected to HTTPS on port 443 to ensure that all data transmissions remain encrypted. The WebSocket communication is also encrypted with TLS 1.2.

Contact Chromalox to find a compatible device including heat trace control systems, temperature controls, power controls, and complete control panels.

BACNET FIELD RETROFIT PANEL (MBC)	
MODEL	PCN
BACnet Converter Wired	387399
BACnet Converter Wireless	387401

WIRED & WIRELESS DEVICES ONLY	
MODEL	PC N
BACnet Converter Wired	387399
BACnet Converter Wireless	387401

IIoT ENABLED PRODUCTS FROM CHROMALOX COVER YOUR ENTIRE PLANT'S THERMAL SOLUTIONS




HEAT TRACE PANELS



DISCRETE TEMPERATURE & POWER CONTROLS



PROCESS HEATING CONTROL SYSTEMS



SYSTEM INTEGRATOR
Use Chromalox Fieldview Portal enabled devices to provide value-added cloud solution to your customer with minimal engineering time.

CHROMALOX CLOUD CAPABILITIES

REMOTE DIAGNOSIS

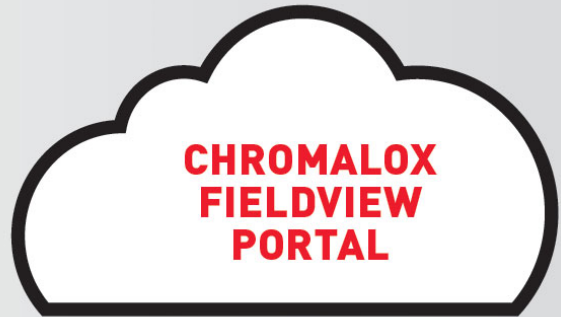
Your team or Chromalox can remotely monitor or diagnose problems to reduce downtime. Existing systems can be field retrofitted by our Service Team.



CLOUD DASHBOARDS

Customizable dashboards to chart trends across devices gaining advanced notice of potential problems.





**UP TO 1 YEAR OF
FREE DATA STORAGE**

IIoT GATEWAY

- ▶ One common device for all Chromalox products
- ▶ Wired or wireless connectivity
- ▶ Data is stored in gateway for 30 days

ASSET MAPPING

Display the location of your assets and instantly see device status.



ALERTS AND NOTIFICATIONS

Set custom triggers to get email or SMS when critical events occur.



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