ProtoAir
IIoT Product Gateway
C2i™

- **IIoT Gateway Compatible with All Chromalox IIoT Enabled Products**

- **Fully Integrated Cloud Platform**

- **Remotely Access and Monitor Entire Chromalox Portfolio Anywhere**

- **Remote Troubleshooting from Chromalox Service Personnel**

- **LAN or BACnet Connectivity Options Available for Local Storage and Control**

- **Synchronize with 3rd Party Cloud Platforms with RESTful API**

- **SMS or Email Event Notification**

- **Customizable Dashboards**

- **Asset Mapping for Quick Reference of Location, System Health and Connectivity Status**

- **Wired, Wireless and Cellular Capabilities**

Description

The Chromalox IIoT Gateway can be installed with any Chromalox IIoT enabled product to provide seamless real time connectivity to the cloud platform. Through the cloud platform users can customize their dashboard for quick access of critical system information or analytics. Asset mapping for global tracking of system location, health, and connection status can be referenced from anywhere to alleviate the unknown of remote monitoring.

Remote Troubleshooting

With approved access, Chromalox service technicians can even perform remote troubleshooting to save time and money. Locations that do not permit cloud based services can still benefit from the Chromalox IIoT gateway through its local LAN or BACnet connectivity options, permitting up to 30 days of on site storage along with one year of web storage for trend analysis. Even 3rd party Cloud based services can be used with the Chromalox IIoT gateway through RESTful API.

IIoT Enabled Products

Chromalox IIoT enabled products stretch across all of our product segments, and feature any device with Ethernet or Modbus capability which includes heat trace panels and controls, standalone temperature and power controls, and our Direct Connect Technology platform. The Chromalox IIoT Gateway is one common device that can be used across your entire Chromalox product portfolio.

Connectivity

The Chromalox IIoT Gateway has a number of different connectivity options which includes hard wired to local network behind firewall, hard wired with internet access to the cloud, WIFI with internet access to cloud, and Cellular access via separately purchased SIM card. Over 140 communication protocols are supported for connection to any BMS or automation protocol, so no matter what connection option is needed, Chromalox has an IIoT Gateway to fit.
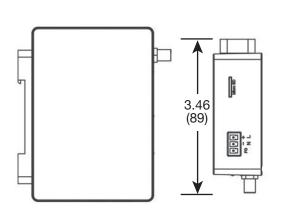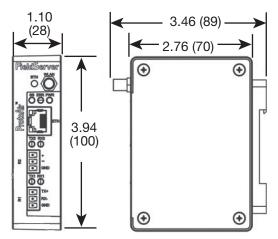
Example

CLOUD STORAGE

ProtoAir
IIoT Product Gateway *(cont'd.)*

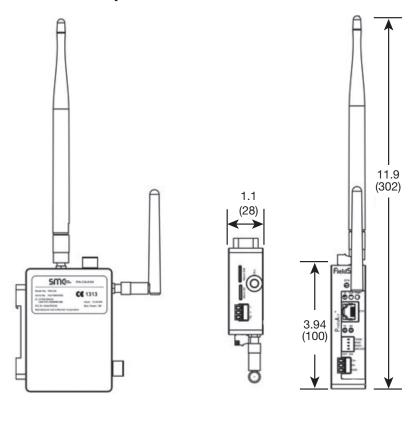*Dimensions In. (mm)*
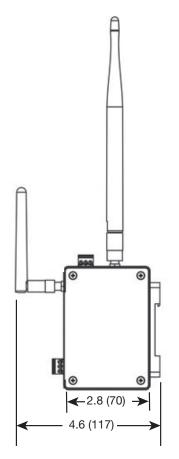
Local Network Gateway

Cellular Network Gateway

CHROMALOX

ProtoAir
IIoT Product Gateway *(cont'd.)*

Specifications

Electrical Specifications	ProtoAir	ProtoAir Cell
Electrical Connections	One 3-pin Phoenix connector with: RS-485 (Tx+ / Rx- / gnd) One 3-pin Phoenix connector with: Power port (+ / - / Frame-gnd) One Ethernet 10/100 BaseT port	One 3-pin Phoenix connector with: RS-485 (Tx+ / Rx- / gnd) One 3-pin Phoenix connector with: Power port (+ / - / Frame-gnd) One Ethernet 10/100 BaseT port
Power Requirements	Input Voltage: 12-24VDC or 24VAC Power Rating: 2.5 Watts W44 Current draw: @ 12V, 240 mA	Input Voltage: 12-24VDC Power Rating: 2.5 Watts C34 Current draw: @ 12V, 670 mA
Approvals	CE and FCC Class B & C Part 15, UL 60950, WEEE Compliant, IC Canada, RoHS Compliant, PTCRB and CTIA	CE and FCC Class B & C Part 15, TUV approved UL 60950, IC Canada, RoHS Compliant, PTCRB and CTIA
Physical Dimensions	4 x 1.1 x 2.7 in (10.16 x 2.8 x 6.8 cm)	4 x 1.1 x 2.7 in (10.16 x 2.8 x 6.8 cm)
Weight	0.4 lbs (0.2 Kg)	0.4 lbs (0.2 Kg)
Operating Temperature	-20°C to 70°C (-4°F to 158°F)	-20°C to 70°C (-4°F to 158°F)
Humidity	10-95% RH non-condensing	10-95% RH non-condensing
Wi-Fi 802.11 b/g/n	Frequency: 2.4 GHz Channels: 1 to 11 (inclusive) Antenna Type: SMA Encryption: TKIP, WPA & AES	Frequency: 2.4 GHz Channels: 1 to 11 (inclusive) Antenna Type: SMA Encryption: TKIP, WPA & AES
Cellular 1F	Not Applicable	Features: 3G & GPS Antenna Type: SMA HSDPA: Up to 21.0 Mbps HSUPA: Up to 5.76 Mbps

Stocked Items

Part Number	PCN	Description
ProtoAir	390416	Local Network Wired/Wireless Gateway
ProtoAir Cell	390424	Cellular Network Wireless Gateway