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# Table of Contents



- Introduction .....2
- E<sup>3</sup>Point .....4
- IAQPoint2 .....7
- 301C .....9
- ToxyPoint .....10
- 301EM-20 & 301IRFS .....11
- SQN8x Sample Draw .....14
- AirScan™ IR-F9 .....18
- Sensepoint® XCD .....19
- Sensepoint® XCD RTD .....22
- Sensepoint® XCD RFD .....25
- Self-Contained Breathing Apparatus  
(SCBA) .....27
- Midas® Extractive Gas Detector .....28
- Commercial Accessories .....32
- Calibration Equipment .....34
- Service Information .....36

**Note**  
Specifications and exact product offering are subject to change without notice. This publication is not intended to form the basis of a contract.

# think safety, think bottom line



## Protect People, Property, Performance and Profitability

Think Honeywell Analytics for intelligent gas monitoring systems that ensure compliance, reduce energy costs and boost operational efficiencies.

As manufacturer of a comprehensive range of gas monitoring instrumentation for commercial buildings, Honeywell Analytics is focused on delivering maximum safety and cost efficiency. We value your business, so we work hard to understand and meet your unique business needs through a range of capabilities.

### Toxic & Flammable Gas Monitoring in Enclosed Parking and Other Building Areas

#### Go beyond protection to obtain greater building performance

Tackling the escalating issues of energy consumption and safety compliance at the same time can be a daunting task for facility owners. Honeywell Analytics makes it easy to adapt quickly to changing building requirements with solutions that safeguard against toxic and flammable gas hazards in multiple building environments while offering many bottom line advantages: procurement cost reduction, energy savings, installation ease and plug-and-play sensor exchange, to name a few. Honeywell Analytics gas monitors integrate with a building's analog or digital infrastructure, work as standalone or network addressable devices, perform single or dual-gas (with remote) monitoring, and connect to wireless and wired infrastructures. Smart sensor design, extreme temperature range of performance and on-demand ventilation activation features add energy savings, efficient operation and economical value to a building. Honeywell Analytics gas monitors protect vehicular areas and practically all other building areas, including outbuildings.

### Refrigerant Gas Monitoring

#### Keep people safe, control costs, ensure compliance

Safety officers and facility managers who oversee mechanical rooms, grocery freezer cases and hospitality areas with cold storage compartments need a gas monitoring solution that ensures safety for occupants, reduces the cost of expensive refrigerant replacement from leaks and minimizes installation and maintenance costs. In contrast to sample draw systems that check for leaks intermittently and must be fitted with plumbing systems, Honeywell offers continuous, real-time monitoring that detects leaks immediately—through remotely positioned sensors capable of detecting 20 different refrigerant, toxic and combustible gases. Honeywell Analytics monitoring systems have saved up to \$150,000 in Freon leaks in commercial building areas.



## **Demand Control Ventilation Solutions**

### **Reduce energy costs, improve indoor air quality**

Mounting economic pressures and green building initiatives are forcing schools, government buildings and other public facilities to improve indoor air quality (IAQ) and control costs. Honeywell's Demand Controlled Ventilation (DCV) solutions measure carbon dioxide, temperature and humidity levels continuously, activating the ventilation system only when occupancy levels require it to do so. This on-demand ventilation activation feature helps facility owners obtain substantial energy cost savings while increasing the comfort and productivity of employees or tenants. In fact, Honeywell's DCV solutions have been shown to save school systems an average of \$18,000 per structure over a three year span\*.

\*As determined by independent testing, field tests conducted by Honeywell and published studies.



# E<sup>3</sup>Point

## Toxic & Combustible Gas Monitor



CO, NO<sub>2</sub>, H<sub>2</sub>S, H<sub>2</sub>, O<sub>2</sub>, CH<sub>4</sub>, C<sub>3</sub>H<sub>8</sub>



Remote Sensor



Sensor Cartridge

Make your operation run more intelligently to protect people, property and your bottom line. Protect parking structures, loading docks, transport terminals, hospital/ambulance bays, car washes, battery charging rooms and hydrogen tanks, commercial kitchens, indoor stadiums, outbuildings and more.

*Note: Non-branded versions of this product are available upon request.*

### Flexible Operation

- Comes in standalone, standalone with remote (dual gas mode) or network versions
- Connects to analog or digital systems
- Works with virtually any BAS including BACnet or Modbus
- Wall or duct mount
- Factory-calibrated cartridges

### Cost Effective

- Saves energy through Demand Control Ventilation (DCV)
- Simplifies installation/maintenance through plug-n-play sensor
- Remote sensor option provides dual gas monitoring (standalone version only)
- Optimizes BAS, fire, ventilation and other security systems

### Versatile Communications

- Works through BAS to improve fault diagnostics and collect data on gas concentration levels, sensor condition, etc.
- Couple with 301C to log data and daisy-chain up to 96 E<sup>3</sup>Point units

### Advanced Sensing Technology

- Detects CO, NO<sub>2</sub>, O<sub>2</sub>, H<sub>2</sub>, H<sub>2</sub>S, CH<sub>4</sub>, C<sub>3</sub>H<sub>8</sub>
- Advanced electrochemical (for toxic gases) and catalytic bead (for combustible gases) sensor performance
- Uses patented Reflex<sup>®</sup> and smart cartridge technologies

### Range of Accessories

- Factory-calibrated replacement cartridges
- Power transformer
- Vandal-resistant steel wire detector guards
- Tamper-proof screws
- Horns and strobes

### Applications

- Parking Structure
- Loading Dock Transport Terminal
- Golf Cart Maintenance,
- Battery Charging Area
- Maintenance Garage
- Hospital/Ambulance Bay
- Fire/Police Station
- Car Wash
- Battery Charging Rooms
- H<sub>2</sub> & Hydrogen Tanks
- Commercial Kitchen C<sub>3</sub>H<sub>8</sub>

### Certifications

- Intertek Classified to: UL 61010-1; and CSA C22.2 No. 61010-1-04
- COLA (City of Los Angeles) approved for carbon monoxide detection in commercial buildings and parking garages

<b>E<sup>3</sup>Point Analog (Single or Dual Gas)</b>	<b>Model Number</b>	<b>Order Number</b>
E <sup>3</sup> Point without sensor, wall mount, analog, 24 V <sub>AC</sub> /V <sub>DC</sub>	E3SA	1309A0042
E <sup>3</sup> Point without sensor, wall mount, analog, 120 V <sub>AC</sub>	E3SAH	1309A0043

<b>E<sup>3</sup>Point Network (Single Gas, BACnet or Modbus Selectable)</b>	<b>Model Number</b>	<b>Order Number</b>
E <sup>3</sup> Point without sensor, wall mount, Modbus/BACnet, 24 V <sub>AC</sub> /V <sub>DC</sub>	E3SM	1309A0047

<b>E<sup>3</sup>Point Remote Gas Sensor (For use with E<sup>3</sup>Point Analog Units Only)</b>	<b>Model Number</b>	<b>Order Number</b>
E <sup>3</sup> Point remote sensor, carbon monoxide (CO)	E3SRMCO	1309A0060
E <sup>3</sup> Point remote sensor, nitrogen dioxide (NO <sub>2</sub> )	E3SRMNO2	1309A0057
E <sup>3</sup> Point remote sensor, hydrogen sulfide (H <sub>2</sub> S)	E3SRMH2S	1309A0058
E <sup>3</sup> Point remote sensor, hydrogen (H <sub>2</sub> )	E3SRMH2	1309A0059
E <sup>3</sup> Point remote sensor, oxygen (O <sub>2</sub> )	E3SRMO2	1309A0056
E <sup>3</sup> Point remote sensor, methane (CH <sub>4</sub> )	E3SRMM	1309A0061
E <sup>3</sup> Point remote sensor, propane (C <sub>3</sub> H <sub>8</sub> )	E3SRMP	1309A0062

<b>E<sup>3</sup>Point Analog, Duct Mount</b>	<b>Model Number</b>	<b>Order Number</b>
E <sup>3</sup> Point without sensor, duct mount, analog, 24 V <sub>AC</sub> /V <sub>DC</sub>	E3DA	1309A0049

<b>E<sup>3</sup>Point Network, Duct Mount</b>	<b>Model Number</b>	<b>Order Number</b>
E <sup>3</sup> Point without sensor, duct mount, Modbus/BACnet 24 V <sub>AC</sub> /V <sub>DC</sub>	E3DM	1309A0051

<b>E<sup>3</sup>Point Sensor Cartridge Part Numbers</b>	<b>Model Number</b>	<b>Order Number</b>
Carbon monoxide (CO); -20° to 50°C (-4° to 122°F)	E3SCO	1309A0038
Nitrogen dioxide (NO <sub>2</sub> ); -40° to 50°C (-40° to 122°F)	E3NO2	1309A0037
Hydrogen sulfide (H <sub>2</sub> S); -40° to 50°C (-40° to 122°F)	E3H2S	1309A0035
Hydrogen (H <sub>2</sub> ); -40° to 50°C (-40° to 122°F)	E3H2	1309A0039
Oxygen (O <sub>2</sub> ); -40° to 50°C (-40° to 122°F)	E3O2	1309A0036
Methane (CH <sub>4</sub> ); -40° to 50°C (-40° to 122°F)	E3M	1309A0040
Propane (C <sub>3</sub> H <sub>8</sub> ); -40° to 50°C (-40° to 122°F)	E3P	1309A0041

<b>E<sup>3</sup>Point Accessories</b>	<b>Model Number</b>	<b>Order Number</b>
Protective wire guard for E <sup>3</sup> Point	E3PT-CAGE	1309-0071
E <sup>3</sup> Point tamper-proof kit	E3T-PK	1309K0001
Splash guard enclosure	ECLAB	1309K0003
Bump test kit; includes balloon adapter and quad gas cylinder: H <sub>2</sub> S (40 ppm), CO (200 ppm), CH <sub>4</sub> (2.5%), O <sub>2</sub> (10%)	TEST-1A	TEST-1A

# IAQPoint2

## Indoor Air Quality Monitor



CO<sub>2</sub> or VOC + temperature/humidity monitoring



Improve indoor air quality and cut energy costs with CO<sub>2</sub> or VOC + temp/humidity monitoring for demand control ventilation. IAQPoint2 features a fully functional, multi-color, touch screen interface, the first of its kind. IAQPoint2 operates on +24 V<sub>AC</sub>/V<sub>DC</sub>. Analog output is 4-20 mA or 2-10 V<sub>DC</sub>, switch selectable. Digital output is BACnet/Modbus selectable or LonWorks. Available in wall mount and duct mount configurations.

*Note: Non-branded versions of this product are available upon request.*

### User-Friendly Touchscreen Operation

- Menu driven, customizable, easy-to-navigate display
- Large 1.9 x 2.6 in. (4.9 x 6.5 cm) VGA screen with easy-to-read LCD digits and graphical display

### Flexible, Money-Saving Design

- Simple wall- or duct-mount
- Multi-analog or digital (BACnet, Modbus) options
- DC and AC power; fits standard junction box
- 5 year sensor life with automatic self-calibration
- Adjustable set-points and optional relay for local fan activation

### 3-in-1 Monitoring

- Choose reliable CO<sub>2</sub> or VOC sensing technologies
- Optimize room comfort through temperature control

### Green Attributes

- Obtain LEED credits
- Meet ASHRAE 15 standards
- Low power consumption and 'sleep mode' feature
- Optimize HVAC use and extend life of components

### Applications

- Auditoriums
- Conference rooms
- Schools
- Hospitals
- Washrooms
- Kitchens
- Janitorial closets
- Copier/printing rooms
- Warehouses/shipping areas

### Certifications

- Intertek Listed to 3rd Editions of: UL 61010-1; and CSA C22.2 No. 61010-1-12
- Intertek tested to EN 61010:2010, EN 61000-6-3:2007 + A1:2011, and EN 50270:2006, Type 2 Equipment for Immunity; and DLS tested to EN 50270:2006 for CE Mark
- BTL (BACnet)
- LonWorks

### Non Display Unit

View at-a-glance normal or fault status



### Ductmount Kit

Gain maximum flexibility for installation





## IAQPoint2 Wall Mount Configurations

<b>IAQPoint2 with Analog Output</b>	<b>Model Number</b>	<b>Order Number</b>
Carbon dioxide (CO <sub>2</sub> ) monitor, wall mount, analog	IAQ-WAC	1508A1001
Carbon dioxide (CO <sub>2</sub> ) monitor, wall mount, analog, relay	IAQ-WAC-R	1508A1003
Carbon dioxide (CO <sub>2</sub> ) monitor, wall mount, analog, temp and rH	IAQ-WAC-TRH	1508A1005
Carbon dioxide (CO <sub>2</sub> ) monitor, wall mount, analog, temp and rH, relay	IAQ-WAC-TRH-R	1508A1007
Carbon dioxide (CO <sub>2</sub> ) monitor, wall mount, analog, display	IAQ-WAC-D	1508A1009
Carbon dioxide (CO <sub>2</sub> ) monitor, wall mount, analog, relay, display	IAQ-WAC-R-D	1508A1011
Carbon dioxide (CO <sub>2</sub> ) monitor, wall mount, analog, temp and rH, display	IAQ-WAC-TRH-D	1508A1013
Carbon dioxide (CO <sub>2</sub> ) monitor, wall mount, analog, temp and rH, relay, display	IAQ-WAC-TRH-R-D	1508A1015
VOC monitor, wall mount, analog	IAQ-WAV	1508A1002
VOC monitor, wall mount, analog, relay	IAQ-WAV-R	1508A1004
VOC monitor, wall mount, analog, temp and rH	IAQ-WAV-TRH	1508A1006
VOC monitor, wall mount, analog, temp and rH, relay	IAQ-WAV-TRH-R	1508A1008
VOC monitor, wall mount, analog, display	IAQ-WAV-D	1508A1010
VOC monitor, wall mount, analog, relay, display	IAQ-WAV-R-D	1508A1012
VOC monitor, wall mount, analog, temp and rH, display	IAQ-WAV-TRH-D	1508A1014
VOC monitor, wall mount, analog, temp and rH, relay, display	IAQ-WAV-TRH-R-D	1508A1016

<b>IAQPoint2 with Digital Output, BACnet and Modbus (Selectable)</b>	<b>Model Number</b>	<b>Order Number</b>
Carbon dioxide (CO <sub>2</sub> ) monitor, wall mount, network, display	IAQ-WNC-D	1508A1017
Carbon dioxide (CO <sub>2</sub> ) monitor, wall mount, network, relay, display	IAQ-WNC-R-D	1508A1019
Carbon dioxide (CO <sub>2</sub> ) monitor, wall mount, network, temp and rH, display	IAQ-WNC-TRH-D	1508A1021
Carbon dioxide (CO <sub>2</sub> ) monitor, wall mount, network, temp and rH, relay, display	IAQ-WNC-TRH-R-D	1508A1023
VOC monitor, wall mount, network, display	IAQ-WNV-D	1508A1018
VOC monitor, wall mount, network, relay, display	IAQ-WNV-R-D	1508A1020
VOC monitor, wall mount, network, temp and rH, display	IAQ-WNV-TRH-D	1508A1022
VOC monitor, wall mount, network, temp and rH, relay, display	IAQ-WNV-TRH-R-D	1508A1024

<b>IAQPoint2 with LonWorks</b>	<b>Model Number</b>	<b>Order Number</b>
Carbon dioxide (CO <sub>2</sub> ) monitor, wall mount, LonWorks, display	IAQ-WLC-D	1508A1025
Carbon dioxide (CO <sub>2</sub> ) monitor, wall mount, LonWorks, relay, display	IAQ-WLC-R-D	1508A1027
Carbon dioxide (CO <sub>2</sub> ) monitor, wall mount, LonWorks, temp and rH, display	IAQ-WLC-TRH-D	1508A1029
Carbon dioxide (CO <sub>2</sub> ) monitor, wall mount, LonWorks, temp and rH, relay, display	IAQ-WLC-TRH-R-D	1508A1031
VOC monitor, wall mount, LonWorks, display	IAQ-WLV-D	1508A1026
VOC monitor, wall mount, LonWorks, relay, display	IAQ-WLV-R-D	1508A1028
VOC monitor, wall mount, LonWorks, temp and rH, display	IAQ-WLV-TRH-D	1508A1030
VOC monitor, wall mount, LonWorks, temp and rH, relay, display	IAQ-WLV-TRH-R-D	1508A1032

# IAQPoint2 Indoor Air Quality Monitor (continued)

## IAQPoint2 Duct Mount Configurations

<b>IAQPoint2 with Analog Output</b>	<b>Model Number</b>	<b>Order Number</b>
Carbon dioxide (CO <sub>2</sub> ) monitor, duct mount, analog	IAQ-DAC	1508A2001
Carbon dioxide (CO <sub>2</sub> ) monitor, duct mount, analog, relay	IAQ-DAC-R	1508A2003
Carbon dioxide (CO <sub>2</sub> ) monitor, duct mount, analog, temp and rH	IAQ-DAC-TRH	1508A2005
Carbon dioxide (CO <sub>2</sub> ) monitor, duct mount, analog, temp and rH, relay	IAQ-DAC-TRH-R	1508A2007
Carbon dioxide (CO <sub>2</sub> ) monitor, duct mount, analog, display	IAQ-DAC-D	1508A2009
Carbon dioxide (CO <sub>2</sub> ) monitor, duct mount, analog, relay, display	IAQ-DAC-R-D	1508A2011
Carbon dioxide (CO <sub>2</sub> ) monitor, duct mount, analog, temp and rH, display	IAQ-DAC-TRH-D	1508A2013
Carbon dioxide (CO <sub>2</sub> ) monitor, duct mount, analog, temp and rH, relay, display	IAQ-DAC-TRH-R-D	1508A2015
VOC monitor, duct mount, analog	IAQ-DAV	1508A2002
VOC monitor, duct mount, analog, relay	IAQ-DAV-R	1508A2004
VOC monitor, duct mount, analog, temp and rH	IAQ-DAV-TRH	1508A2006
VOC monitor, duct mount, analog, temp and rH, relay	IAQ-DAV-TRH-R	1508A2008
VOC monitor, duct mount, analog, display	IAQ-DAV-D	1508A2010
VOC monitor, duct mount, analog, relay, display	IAQ-DAV-R-D	1508A2012
VOC monitor, duct mount, analog, temp and rH, display	IAQ-DAV-TRH-D	1508A2014
VOC monitor, duct mount, analog, temp and rH, relay, display	IAQ-DAV-TRH-R-D	1508A2016

<b>IAQPoint2 with Digital Output, BACnet and Modbus (Selectable)</b>	<b>Model Number</b>	<b>Order Number</b>
Carbon dioxide (CO <sub>2</sub> ) monitor, duct mount, network, display	IAQ-DNC-D	1508A2017
Carbon dioxide (CO <sub>2</sub> ) monitor, duct mount, network, relay, display	IAQ-DNC-R-D	1508A2019
Carbon dioxide (CO <sub>2</sub> ) monitor, duct mount, network, temp and rH, display	IAQ-DNC-TRH-D	1508A2021
Carbon dioxide (CO <sub>2</sub> ) monitor, duct mount, network, temp and rH, relay, display	IAQ-DNC-TRH-R-D	1508A2023
VOC monitor, duct mount, network, display	IAQ-DNV-D	1508A2018
VOC monitor, duct mount, network, relay, display	IAQ-DNV-R-D	1508A2020
VOC monitor, duct mount, network, temp and rH, display	IAQ-DNV-TRH-D	1508A2022
VOC monitor, duct mount, network, temp and rH, relay, display	IAQ-DNV-TRH-R-D	1508A2024

<b>IAQPoint2 with LonWorks</b>	<b>Model Number</b>	<b>Order Number</b>
Carbon dioxide (CO <sub>2</sub> ) monitor, duct mount, LonWorks, display	IAQ-DLC-D	1508A2025
Carbon dioxide (CO <sub>2</sub> ) monitor, duct mount, LonWorks, relay, display	IAQ-DLC-R-D	1508A2027
Carbon dioxide (CO <sub>2</sub> ) monitor, duct mount, LonWorks, temp and rH, display	IAQ-DLC-TRH-D	1508A2029
Carbon dioxide (CO <sub>2</sub> ) monitor, duct mount, LonWorks, temp and rH, relay, display	IAQ-DLC-TRH-R-D	1508A2031
VOC monitor, duct mount, LonWorks, display	IAQ-DLV-D	1508A2026
VOC monitor, duct mount, LonWorks, relay, display	IAQ-DLV-R-D	1508A2028
VOC monitor, duct mount, LonWorks, temp and rH, display	IAQ-DLV-TRH-D	1508A2030
VOC monitor, duct mount, LonWorks, temp and rH, relay, display	IAQ-DLV-TRH-R-D	1508A2032



# 301C Oxygen, Toxic & Combustible Gas Controller



The 301C Controller continuously monitors and controls toxic gases, combustible gases, and oxygen hazards. Designed for installation and operational simplicity, the 301C reduces the cost of installation and ownership.

Using an addressable RS-485 Modbus communication protocol, the 301C uses daisy chain wiring requiring only 2 pairs of wires to connect up to 96 transmitters on the 3 input channels. This simplifies installation, in turn lowering costs. The 301C's zoning and averaging abilities significantly reduce operational and maintenance costs.

*Note: Non-branded versions of this product are available upon request.*

#### User Friendly

- Zero maintenance
- Automatic quick self-test and warm-up
- Continuous alphanumeric display

#### Inexpensive and Reliable

- Low installation costs
- Allows for up to 126 zoning groups which can save energy and extend fan and relay life
- Manages up to 180 events with programmable latching alarms

#### Safety Measures

- Full array of visual indicators and integrated 65dBA alarm levels
- Fully programmable relays (can be set as fail-safe or not)

#### Flexible Operation

- Modbus compatible; with BACnet/IP available
- Interchangeable transmitters able to detect different gases
- Expands to handle up to 96 transmitters or relay modules
- Programmable time delays
- Integrated time clock enables scheduling of system operations

#### Beneficial Options

- Available in a heavy duty industrial housing
- Datalogging option

#### Applications

All commercial building areas requiring multi-point gas monitoring

#### Certifications

- Intertek Listed to: UL 61010-1; and CSA C22.2 No. 61010-1-04

### 301C Gas Controllers

### Order Number

301-ADI analog digital input converter (4-20mA to Modbus RS-485)	301-ADI
301AP annunciator panel for 301C Controller	301-AP
301C Controller with datalogger, BACnet/IP output, plastic enclosure	301-C-DLC-BIP
301C Controller with datalogger, plastic enclosure	301-C-DLC
301C Controller, plastic enclosure	301-C
301-R8 relay module with 8 relays, failsafe	301-R8-FS
301-R8 relay module with 8 relays	301-R8
420I digital analog output converter, Modbus RS-485 to 4-20mA	420-I

# ToxyPoint

Two-Wire Transmitter



CO



The ToxyPoint two wire transmitter provides continuous monitoring for carbon monoxide in ambient air and is designed to reduce the overall cost of ownership with a lower initial investment, eliminating maintenance costs and minimising building electrical operating costs. 2-Year disposable sensor, no calibration required.

### ToxyPoint Two-Wire Transmitter

### Model Number

### Order Number

ToxyPoint: disposable 2-wire 4-20 mA carbon monoxide (CO) transmitter

TP1-M

M-503340



# 301EM-20 & 301IRFS

## Refrigerant, Toxic & Combustible Gas Controller and Networkable Sensors

*R11, R123, R125, R134a, R22, R404a, R407c, R410a, R4310, R507a, CO, Cl<sub>2</sub>, H<sub>2</sub>S, NO<sub>2</sub>, NH<sub>3</sub>, O<sub>2</sub>, SO<sub>2</sub>, COMB*



The 301EM-20 acts as a controller for up to 20 remote sensors and suits a variety of gas detection system solutions for Mechanical Rooms.

Particularly configured to meet ASHRAE 15, B-52 and International Mechanical Code requirements, the 301EM-20 is commonly used to optimize gas detection in mechanical and chiller rooms. A full complement of sensors (including toxic, oxygen, combustible gases and a full line of refrigerant sensors), horns, strobes and remote panels provide added flexibility to suit a variety of gas detection system solutions.

*Note: Non-branded versions of this product are available upon request.*

### User Friendly

- Easy to read LCD display
- Auto-diagnostic capabilities

### Economical Solution

- Cost-effective answer for installation in Mechanical Rooms locations

### Flexible Operation

- Able to operate with up to 20 remote sensors at a time
- Various types of sensors available to simultaneously detect a range of different Refrigerant, Toxic and Combustible gases
- Robust and reliable RS-485 Modbus communication

### Output Adaptability

- Three 24 Vdc alarm outputs and four 4-20 mA outputs

### Safety Measures

- Four fully programmable relays
- Three alarm levels with built-in visual indicators and audible alarm

### Beneficial Options

- Convenient stand-alone or network operation

### Applications

- Mechanical Rooms

### Certifications

- Intertek Classified (301IRFS) Listed (301EM) to: UL 61010-1; and CSA C22.2 No. 61010-1-04

# 301EM-20 & 301IRFS (continued)

## 301EM Controllers

	Order Number
Controller, Type 1 Canada	301-EM-CA1
Controller, Type 2 Canada	301-EM-CA2
Controller, Type 3 US	301-EM-US3
Controller with horn and strobe, Type 1 Canada	301-EM-RFSA-CA1
Controller with horn and strobe, Type 2 Canada	301-EM-RFSA-CA2
Controller with horn and strobe, Type 3 US	301-EM-RFSA-US3

## Annunciator Panel for use with 301EM-20

	Order Number
Remote panel	301-EMRP
Remote panel with horn and strobe	301-EMRP-RFSA

## 301IRFS Sensors for use with 301EM-20 (0-1000 ppm)

	Order Number
R11 refrigerant gas sensor	301-IRFS-R11
R123 refrigerant gas sensor	301-IRFS-R123
R125 refrigerant gas sensor	301-IRFS-R125
R134a refrigerant gas sensor	301-IRFS-R134A
R22 refrigerant gas sensor	301-IRFS-R22
R404a refrigerant gas sensor	301-IRFS-R404A
R407c refrigerant gas sensor	301-IRFS-R407C
R410a refrigerant gas sensor	301-IRFS-R410A
R4310 refrigerant gas sensor	301-IRFS-R4310
R507a refrigerant gas sensor	301-IRFS-R507A

# 301EM-20 & 301IRFS (continued)

<b>S301D2 Sensors for use with 301EM-20</b>	<b>Model Number</b>	<b>Order Number</b>
Combustible explosion proof sensor - (GAIN 1.0-1.3 / Methane)	S301D2COMB	129570-L3
Combustible explosion proof sensor - (GAIN 1.3-1.599 / Hydrogen)	S301D2COMB	129426-L3
Combustible explosion proof sensor - (GAIN 1.6-1.999 / Propane, Ethanol)	S301D2COMB	129427-L3
Combustible explosion proof sensor - (GAIN 2.0-2.219 / n-Pentane)	S301D2COMB	129428-L3
Combustible explosion proof sensor - (GAIN 2.220-2.5 / Toluene)	S301D2COMB	129429-L3
Combustible explosion proof sensor - (GAIN +2.5 / n-Decane)	S301D2COMB	129430-L3
Carbon monoxide (CO) explosion proof sensor	S301D2CO	129431-L3
Chlorine (Cl <sub>2</sub> ) explosion proof sensor	S301D2CL2	129435-L3
Nitrogen dioxide (NO <sub>2</sub> ) explosion proof sensor	S301D2NO2	129432-L3
Hydrogen sulfide (H <sub>2</sub> S) explosion proof sensor	S301D2H2S	129433-L3
Oxygen (O <sub>2</sub> ) explosion proof sensor	S301D2O2	129436-L3
Sulfur dioxide (SO <sub>2</sub> ) explosion proof sensor	S301D2SO2	129434-L3

<b>EC-F9-EM Sensors for ammonia (NH<sub>3</sub>) detection for use with 301EM-20</b>	<b>Model Number</b>	<b>Order Number</b>
Ammonia (NH <sub>3</sub> ) monitor, 4-20 mA, Modbus, 0-100 ppm, NEMA 1 encl.	EC-F9-NH3-0/100-N1-EM	M-511071
Ammonia (NH <sub>3</sub> ) monitor, 4-20 mA, Modbus 0-250 ppm, NEMA 1 encl.	EC-F9-NH3-0/250-N1-EM	M-511072
Ammonia (NH <sub>3</sub> ) monitor, 4-20 mA, Modbus 0-500 ppm, NEMA 1 encl.	EC-F9-NH3-0/500-N1-EM	M-511010

<b>Options for use with 301EM-20</b>	<b>Model Number</b>	<b>Order Number</b>
Break glass manual switch option for 301EM	EMBG	M-508617
301EM-20 light stack assembly	–	M-700123
Metal guard for 301IRFS sensors	IRFSENSORGUARD	M-505352
2-Position selector switch - 120 V <sub>AC</sub>	SEL-2POS-120V	M-505913
Push button NO/NC - 120 V <sub>AC</sub>	BP-120V-NO-NC	M-505912
Push button NO/NC locked - 120 V <sub>AC</sub>	BP-120V-LOCKED	M-505911
12/24 V <sub>DC</sub> Power Supply, UL/cUL Listed, 2.5A @ 24V <sub>DC</sub>	HPV5DC8UL	HPV5DC8UL

# SQN8x Sample Draw

## Refrigerant, Toxic & Combustible Sample-Draw Gas Monitoring System



CO, COMB, NO<sub>2</sub>, O<sub>2</sub>, R11, R123, R125, R134A, R22, R227, R404A, R410A, R4310, R507



The new generation of the SQN8x series combines long proven sensing capability with state-of-the-art pumping technology and constant, high accuracy to yield a highly reliable sample draw gas detection system. Save costs through sensing capability to monitor gases in up to 8 different zones.

*Note: Each configuration includes one sensor and tubing as indicated.*

### Safety Measures

- 3 alarm relays
- Audible alarm
- Early low level warning alarm
- Integrated flow loss surveillance

### Reliable

- Wide area of coverage
- 2, 4 or 8 sample points
- Proven sensing technology
- Up to 2 gases

### Applications

- Chillers
- Mechanical Rooms
- Breweries
- Wineries
- Supermarkets

### Certifications

- Intertek Classified to: UL 61010-1; and CSA C22.2 No. 61010-1-04

### SQN82 Systems (2-point single gas system with 200 ft. of tubing)

	Model Number	Order Number
R22, 0-1000 ppm	VASQN82-R22	M-508740
R11, 0-1000 ppm	VASQN82-R11	M-509624
R123, 0-1000 ppm	VASQN82-R123	M-508699
R125, 0-1000 ppm	VASQN82-R125	M-509637
R134A, 0-1000 ppm	VASQN82-R134A	M-509638
R404A, 0-1000 ppm	VASQN82-R404A	M-509641
R507, 0-1000 ppm	VASQN82-R507	M-509642
O <sub>2</sub> , 0-25%	VASQN82-O2	M-509748
CO, 0-250 ppm	VASQN82-CO	M-509760
COMB, 0-100% LEL	VASQN82-COMB	M-509761
NO <sub>2</sub> , 0-10 ppm	VASQN82-NO2	M-509762



# SQN8x Sample Draw

## Refrigerant, Toxic & Combustible Sample-Draw Gas Monitoring System

<b>SQN82 Systems (2-point dual gas system with 200 ft. of tubing)</b>	<b>Model Number</b>	<b>Order Number</b>
R22-R123, 0-1000 ppm	VASQN82-R22-R123	M-508747
R11-R123, 0-1000 ppm	VASQN82-R11-R123	M-509643
R11-R125, 0-1000 ppm	VASQN82-R11-R125	M-509644
R11-R134A, 0-1000 ppm	VASQN82-R11-R134A	M-509645
R22-R125, 0-1000 ppm	VASQN82-R22-R125	M-509657
R11-R404A, 0-1000 ppm	VASQN82-R11-R404A	M-509648
R11-R507, 0-1000 ppm	VASQN82-R11-R507	M-509649
R22-R125, 0-1000 ppm	VASQN82-R22-R125	M-509657
R22-R134A, 0-1000 ppm	VASQN82-R22-R134A	M-509658
R22-R404A, 0-1000 ppm	VASQN82-R22-R404A	M-509661
R22-R507, 0-1000 ppm	VASQN82-R22-R507	M-509662
R22-R125, 0-1000 ppm	VASQN82-R22-R125	M-509657
CO-COMB, 0-250 ppm, 0-100% LEL	VASQN82-CO-COMB	M-509789
CO-NO <sub>2</sub> , 0-250 ppm, 0-10 ppm	VASQN82-CO-NO2	M-509790

<b>SQN84 Systems (4-point single gas system with 400 ft. of tubing)</b>	<b>Model Number</b>	<b>Order Number</b>
NO <sub>2</sub> , 0-10 ppm	VASQN84-NO2	M-503798
R123, 0-1000 ppm	VASQN84-R123	M-508722
R22, 0-1000 ppm	VASQN84-R22	M-508741
R11, 0-1000 ppm	VASQN84-R11	M-509663
R125, 0-1000 ppm	VASQN84-R125	M-509664
R134A, 0-1000 ppm	VASQN84-R134A	M-509665
R404A, 0-1000 ppm	VASQN84-R404A	M-509668
R507, 0-1000 ppm	VASQN84-R507	M-509669
CO, 0-250 ppm	VASQN84-CO	M-509763
COMB, 0-100% LEL	VASQN84-COMB	M-509764
O <sub>2</sub> , 0-25%	VASQN84-O2	M-509766

# SQN8x Sample Draw (continued)

<b>SQN84 Systems (4-point dual gas system with 400 ft. of tubing)</b>	<b>Model Number</b>	<b>Order Number</b>
R11-R22, 0-1000 ppm	VASQN84-R11-R22	M-503806
R22-R123, 0-1000 ppm	VASQN84-R22-R123	M-508748
R11-R123, 0-1000 ppm	VASQN84-R11-R123	M-509324
R11-R125, 0-1000 ppm	VASQN84-R11-R125	M-509670
R11-R134A, 0-1000 ppm	VASQN84-R11-R134A	M-509671
R11-R404A, 0-1000 ppm	VASQN84-R11-R404A	M-509674
R11-R507, 0-1000 ppm	VASQN84-R11-R507	M-509675
R22-R125, 0-1000 ppm	VASQN84-R22-R125	M-509683
R22-R134A, 0-1000 ppm	VASQN84-R22-R134A	M-509684
R22-R404A, 0-1000 ppm	VASQN84-R22-R404A	M-509687
R22-R507, 0-1000 ppm	VASQN84-R22-R507	M-509688
R134A-COMB, 0-1000 ppm, 100% LEL	VASQN84-R134A-COMB	M-510250
R123-R134A, 0-1000 ppm	VASQN84-R123-R134A	M-510459

<b>SQN88 Systems (8-point single gas system with 800 ft. of tubing)</b>	<b>Model Number</b>	<b>Order Number</b>
NO <sub>2</sub> , 0-10 ppm	VASQN88-NO2	M-503929
R123, 0-1000 ppm	VASQN88-R123	M-508723
R22, 0-1000 ppm	VASQN88-R22	M-508742
R11, 0-1000 ppm	VASQN88-R11	M-509689
R125, 0-1000 ppm	VASQN88-R125	M-509691
R134A, 0-1000 ppm	VASQN88-R134A	M-509692
R404A, 0-1000 ppm	VASQN88-R404A	M-509695
R507, 0-1000 ppm	VASQN88-R507	M-509696
CO, 0-250 ppm	VASQN88-CO	M-509767
COMB, 0-100% LEL	VASQN88II-COMB	M-509768
O <sub>2</sub> , 0-25%	VASQN88-O2	M-509770
R410A, 0-1000 ppm	VASQN88-R410A	CVIP3751

# SQN8x Sample Draw (continued)

<b>SQN88 Systems (8-point dual gas system with 800 ft. of tubing)</b>	<b>Model Number</b>	<b>Order Number</b>
R11-R22, 0-1000 ppm	VASQN88-R11-R22	M-503937
R22-R12, 0-1000 ppm	VASQN88-R22-R123	M-508749
R22-R134A, 0-1000 ppm	VASQN88-R22-R134A	M-509480
R123-R134A, 0-1000 ppm	VASQN88-R123-R134A	M-509619
R11-R123, 0-1000 ppm	VASQN88-R11-R123	M-509697
R11-R125, 0-1000 ppm	VASQN88-R11-R125	M-509698
R11-R134A, 0-1000 ppm	VASQN88-R11-R134A	M-509699
R11-R404A, 0-1000 ppm	VASQN88-R11-R404A	M-509702
R11-R507, 0-1000 ppm	VASQN88-R11-R507	M-509703
R22-R125, 0-1000 ppm	VASQN88-R22-R125	M-509711
R22-R404A, 0-1000 ppm	VASQN88-R22-R404A	M-509714
R22-R507, 0-1000 ppm	VASQN88-R22-R507	M-509715
R4310-O <sub>2</sub> , 0-1000 ppm, 0-25%	VASQN88-R4310-O2	M-700202
CO-NO <sub>2</sub> , 0-250 ppm, 0-10 ppm	VASQN88-CO-NO2	M-509802
COMB-O <sub>2</sub> , 0-100% LEL, 0-25%	VASQN88-COMB-O2	M-509805

<b>SQN8x Spare Sampling Tube</b>	<b>Model Number</b>	<b>Order Number</b>
200 ft. sampling tube (0.17 in. I.D., 0.25 in. O.D.)	8XTL5	0235-0295
400 ft. sampling tube (0.17 in. I.D., 0.25 in. O.D.)	8XTL9	0235-0296
800 ft. sampling tube (0.17 in. I.D., 0.25 in. O.D.)	8XTL14	0235-0297

<b>SQN8x Accessories</b>	<b>Order Number</b>
Vacuum filter, 50 micron	M-510806
Sampling point with filter	M-504183

# AirScan™ IR-F9

## Standalone Refrigerant Gas Monitor for Cold Storage



R134a, R22, R404a, R407a, R410a, R422d, R507a, HFO1234yf, CO<sub>2</sub>



The AirScan™ iR Sensor responds to refrigerants over the range of 0-1,000 ppm and features SensorCheck™ technology that continually monitors sensor performance.

The AirScan™ iR Sensor is an affordable microprocessor-based sensor that is selective to refrigerants and, because of its stabilised design platform, will provide years of service and will maintain the highest level of accuracy and reliability. This highly versatile sensor features SensorCheck™, a unique technology that continuously monitors sensor performance that enables it to provide worry-free performance throughout the life of the sensor.

A true “diffusion” design sensor, the AirScan™ iR Sensor does not require either pumps or filters and allows all points of detection to be monitored perpetually, unlike sample draw systems. The versatile sensor is housed in a high mass metal bench structure that enables thermal stability and freedom from vibration.

IR-F9 units configured to a full scale of 0-500 ppm are designed to meet **California Air Review Board (CARB)** requirements.

### Applications

- Chiller Rooms
- Cold Storage
- Food Processing
- Supermarkets

AirScan™ IR-F9 with Commercial Enclosure	Model Number	Order Number
Carbon dioxide (CO <sub>2</sub> ) 0/10,000 ppm, commercial enclosure	IR-F9-CO <sub>2</sub> -1%-COM	M-700197
Carbon dioxide (CO <sub>2</sub> ) 0/30,000 ppm, commercial enclosure	IR-F9-CO <sub>2</sub> -3%-COM	M-700198
HFO1234yf 0/500 ppm, commercial enclosure, <b>CARB compliant</b>	IR-F9-HFO1234yf-0/1000-COM	M-700265
HFO1234yf 0/1000 ppm, commercial enclosure	IR-F9-HFO1234yf-0/1000-COM	M-700270
HFO1234yf 0/3000 ppm, commercial enclosure	IR-F9-HFO1234yf-0/1000-COM	M-700275
R22 0-500 ppm, commercial enclosure, <b>CARB compliant</b>	IR-F9-R22-0-500-COM	M-700127
R22 0-1,000 ppm, commercial enclosure	IR-F9-R22-0/1000-COM	M-700137
R134a 0-1,000 ppm, commercial enclosure	IR-F9-R134a-0/1000-COM	M-700138
R404a 0-1,000 ppm, commercial enclosure	IR-F9-R404a-0/1000-COM	M-700139
R407a 0-500 ppm, commercial enclosure, <b>CARB compliant</b>	IR-F9-R407a-0-500-COM	M-700051
R407a 0-1,000 ppm, commercial enclosure	IR-F9-R407a-0/1000-COM	M-700061
R410a 0-1,000 ppm, commercial enclosure	IR-F9-R410a-0/1000-COM	M-700081
R422d 0-500 ppm, commercial enclosure, <b>CARB compliant</b>	IR-F9-R422d-0-500-COM	M-700022
R422d 0-1,000 ppm, commercial enclosure	IR-F9-R422d-0/1000-COM	M-700031
R507a 0-1,000 ppm, commercial enclosure	IR-F9-R507a-0/1000-COM	M-700140

AirScan™ IR-F9 Accessories	Order Number
420MDBS-96D AirAlert 96d interface module 4-20 to RS485 with phoenix connector	M-511352*
Relay plug 4-20 signal term 3A 24 V <sub>DC</sub>	M-600008

\*Note: MDBS modules require factory-set configuration parameters. Please specify at time of ordering. Use of this module inside a sensor will invalidate any certifications.



# Sensepoint® XCD

## Flammable, Toxic & Oxygen Gas Detector and Transmitter

*CH<sub>4</sub>, C<sub>3</sub>H<sub>8</sub>, C<sub>5</sub>H<sub>12</sub>, CO, CO<sub>2</sub>, H<sub>2</sub>, H<sub>2</sub>S, LEL, NO<sub>2</sub>, O<sub>2</sub>*



The Sensepoint XCD range provides comprehensive monitoring of flammable, toxic and oxygen gas hazards in potentially explosive atmospheres, both indoors and outdoors. Users can modify detector operation using the LCD and magnet switches without ever needing to open the unit. This enables one-man, non-intrusive operation and reduces routine maintenance time and costs.

### One-Stop Shop

- Flammable (catalytic or infrared), toxic and oxygen versions available
- New and retrofit applications
- Suitable for indoor or outdoor use
- Aluminium explosion-proof housing
- IP66 as standard

### Proven and Reliable Sensor Technology

- Surecell™ electrochemical sensors
- Reflex® sensor health check
- Poison immune infrared sensors
- Poison resistant catalytic bead sensors
- Long life sensors

### Easy to Use

- User friendly and intuitive tri-colour backlit display with digits, bar graph and icons
- Fully configurable via magnetic switches
- Selectable sink or source 4-20 mA output
- Auto-inhibit during maintenance
- Modbus communications for remote diagnostics/configuration

### Cost Effective

- Common transmitter platform
- Minimal training required
- Reduced spares
- Non-intrusive, one-man operation
- Plug-in sensor replacement
- Modbus multi drop option offers cabling savings

### Simple Installation

- Plug-in display module removes to give access to terminal area
- Integral mounting bracket
- 2 x ¼ in. NPT cable/conduit entries
- Removable plug/socket type terminal blocks for ease of wiring
- Sink/source switch to suit preferred wiring topology

### Range of Optional Accessories

- Remote sensor gassing kit
- Duct mounting kit
- Calibration gas flow housing
- Collecting cone

### Applications

- Boiler Rooms
- Hospitals
- Warehouses
- Chemical storage

### Certifications

- US and Canadian
- For additional information on certifications and approvals contact Honeywell Analytics

# Sensepoint® XCD (continued)

<b>Sensepoint XCD Transmitters Class I, Div. 1: UL &amp; cUL Approvals</b>	<b>Order Number</b>
Carbon monoxide (CO) explosion proof transmitter (EC), 4-20 mA, 3 relays, Modbus, 0-250 ppm aluminum enclosure	SPXCDULNCXM
Combustible (CH <sub>4</sub> ) explosion proof transmitter (Cat Bead), 4-20 mA, 3 relays, Modbus, 0-100% aluminum enclosure	SPXCDULNFXM
Combustible (C <sub>3</sub> H <sub>8</sub> ) explosion proof transmitter (Cat Bead), 4-20 mA, 3 relays, Modbus, 0-100% aluminum enclosure <i>Custom calibration: SPXCDULNFXM PROPANE</i>	SVIP3729
Combustible (H <sub>2</sub> ) explosion proof transmitter (Cat Bead), 4-20 mA, 3 relays, Modbus, 0-100% aluminum enclosure <i>Custom calibration: SPXCDULNFXM HYDROGEN</i>	SVIP3730
Combustible (C <sub>5</sub> H <sub>12</sub> ) explosion proof transmitter (Cat Bead), 4-20 mA, 3 relays, Modbus, 0-100% aluminum enclosure <i>Custom calibration: SPXCDULNFXM PENTANE</i>	SVIP3731
Hydrogen sulfide (H <sub>2</sub> S) explosion proof transmitter (EC), 4-20 mA, 3 relays, Modbus, 0-50 ppm aluminum enclosure	SPXCDULNHXM
Nitrogen dioxide (NO <sub>2</sub> ) explosion proof transmitter (EC), 4-20 mA, 3 relays, Modbus, 0-50 ppm aluminum enclosure	SPXCDULNNXM
Oxygen (O <sub>2</sub> ) explosion proof transmitter (EC), 4-20 mA, 3 relays, Modbus, 0-25% aluminum enclosure	SPXCDULNO1M
Hydrogen (H <sub>2</sub> ) explosion proof transmitter (EC), 4-20 mA, 3 relays, Modbus, 0-1,000 ppm aluminum enclosure	SPXCDULNG1M
<b>Sensepoint XCD Transmitters Class I, Div. 1: UL Approval</b>	<b>Order Number</b>
Combustible explosion proof transmitter (IR), methane (CH <sub>4</sub> ) 4-20 mA, 3 relays, Modbus, 0-100% LEL aluminum enclosure	SPXCDULNRXM
Combustible explosion proof transmitter (IR), propane (C <sub>3</sub> H <sub>8</sub> ) 4-20 mA, 3 relays, Modbus, 0-100% LEL aluminum enclosure	SPXCDULNPXM
Carbon dioxide (CO <sub>2</sub> ) explosion proof transmitter (IR), 4-20 mA, 3 relays, Modbus, 0-2% Vol aluminum enclosure	SPXCDULNB1M

EC: Electrochemical Cell / Cat Bead: Catalytic Bead / IR: Infrared

# Sensepoint® XCD (continued)

<b>XCD Consumables Class I, Div. 1</b>	<b>Order Number</b>
Flammable CAT 0-100% LEL (20 to 100.0% LEL)	SPXCDXSFSS
Oxygen (O <sub>2</sub> ) 25.0%/Vol only	SPXCDXSO1SS
Hydrogen sulfide (H <sub>2</sub> S) 0-50 ppm (10.0 to 100.0 ppm)	SPXCDXSHXSS
Carbon monoxide (CO) 0-500 ppm (100 to 1000 ppm)	SPXCDXSCXSS
Carbon dioxide (CO <sub>2</sub> ) 0-2% VOL	SPXCDXSB1SS
Hydrogen (H <sub>2</sub> ) 0-1000 ppm only	SPXCDXSG1SS
Nitrogen dioxide (NO <sub>2</sub> ) 10-50 ppm	SPXCDXSNXSS
Flammable IR 0-100% LEL methane (20 to 100.0% LEL)	SPXCDXSRXSS

<b>XCD Spares, Class I, Div. 1</b>	<b>Order Number</b>
Sensepoint XCD standard weather protection	SPXDCWP
Sensor retainer with locking screw	SPXCDSRLS
Allen key for stopper	SPXCDAKS
Hex wrench for earth screw	SPXCDHWES
Earth bracket and screws	SPXCDEBS
Magnetic wand	SPXCDMAG

<b>XCD Accessories, Class I, Div. 1</b>	<b>Order Number</b>
Calibration cap	S3KCAL
Collecting cone for use with lighter than air gases	SPXCDCC
Duct mounting kit	SPXCDDMK
Mounting bracket (inc. bolts, nuts, brackets)	SPXCMTBR
Sunshade / deluge protection	SPXCSDP
Hard copy manual in english	SPXCDHMANEN

# Sensepoint® XCD RTD

Remote Toxic & Oxygen Gas Detector and Transmitter



Cl<sub>2</sub>, CO, H<sub>2</sub>, H<sub>2</sub>S, NH<sub>3</sub>, NO, NO<sub>2</sub>, O<sub>2</sub>, SO<sub>2</sub>



Sensepoint XCD RTD from Honeywell Analytics makes it easy on your maintenance team, time and budget when faced with the challenge of monitoring toxic gases in Class I, Div. 2 areas.

You can mount the unit up to 100 feet from the transmitter to obtain maximum gas detection coverage in areas not easily accessible or where the sensor would not be visible, as in high-or low-level concealed areas, or detection outside the room being monitored. XCD RTD offers unrivaled flexibility and performance via its easily recognizable display (traffic light pattern) to convey safety status, communication and mounting options, and onboard diagnostics.

### Reduce Cost of Ownership Over Life of the Product

- Cut stocking and procurement costs with a common transmitter platform
- Reduce maintenance time and expense with non-intrusive, one-man operation
- Simplify maintenance with plug-in, removable sensor
- Reduce inspection and training time with tri-color 'traffic light' display conveying safety status at a glance
- Simplify set-up and configuration with non-intrusive magnetic switches

### Applications

- Class I, Div 2 Areas

### Certifications

- US and Canadian
- For additional information on certifications and approvals contact Honeywell Analytics

### Gain Added Flexibility, Reliability and Performance

- Extend gas sensing element up to 100 ft. (30 m) from transmitter; mount in the most difficult to access areas
- Reduce likelihood of human error via on-board diagnostics and easy-to-read display
- Protect against dust/water ingress with IP66/67 rated stainless steel or aluminum enclosure
- Prevent false alarms with auto-inhibit during maintenance
- Select sink or source 4-20 mA output; integral or remote configuration
- Full range of accessories and purchase options let you choose the remote monitoring system that's right for your application



Sensor Fitted to Remote Junction Box



# Sensepoint® XCD RTD

## Remote Toxic & Oxygen Gas Detector and Transmitter

### Sensepoint XCD RTD Transmitters Class I, Div. 2: UL & cUL Approvals

### Order Number

Oxygen (O <sub>2</sub> ) explosion proof transmitter (EC), 4-20 mA, 3 relays, Modbus, 0-25% aluminum enclosure, Class I, Div. 2	SPXCDULNO2M
Hydrogen sulfide (H <sub>2</sub> S) explosion proof transmitter (EC), 4-20 mA, 3 relays, Modbus, 0-50 ppm aluminum enclosure, Class I, Div. 2	SPXCDULNH2M
Carbon monoxide (CO) explosion proof transmitter (EC), 4-20 mA, 3 relays, Modbus, 0-200 ppm aluminum enclosure, Class I, Div. 2	SPXCDULNC2M
Hydrogen (H <sub>2</sub> ) explosion proof transmitter (EC), 4-20 mA, 3 relays, Modbus, 0-1,000 ppm aluminum enclosure, Class I, Div. 2	SPXCDULNG2M
Nitrogen dioxide (NO <sub>2</sub> ) explosion proof transmitter (EC), 4-20 mA, 3 relays, Modbus, 0-10 ppm aluminum enclosure, Class I, Div. 2	SPXCDULNN2M
Ammonia (NH <sub>3</sub> ) explosion proof transmitter (EC), 4-20 mA, 3 relays, Modbus, 0-50 ppm aluminum enclosure, Class I, Div. 2	SPXCDULNA2M
Chlorine (Cl <sub>2</sub> ) explosion proof transmitter (EC), 4-20 mA, 3 relays, Modbus, 0-5 ppm aluminum enclosure, Class I, Div. 2	SPXCDULNL2M
Sulfur dioxide (SO <sub>2</sub> ) explosion proof transmitter (EC), 4-20 mA, 3 relays, Modbus, 0-15 ppm aluminum enclosure, Class I, Div. 2	SPXCDULNS2M
Nitric oxide (NO) explosion proof transmitter (EC), 4-20 mA, 3 relays, Modbus, 0-100 ppm aluminum enclosure, Class I, Div. 2	SPXCDULND2M

### Sensepoint XCD RTD Transmitters Class I, Div. 2: UL & cUL Approvals with Remote Mount Hardware

### Order Number

Oxygen (O <sub>2</sub> ) explosion proof transmitter (EC), 4-20 mA, 3 relays, Modbus, 0-25% aluminum enclosure, Class I, Div. 2 with remote mount hardware	SPXCDULNO2RM
Hydrogen sulfide (H <sub>2</sub> S) explosion proof transmitter (EC), 4-20 mA, 3 relays, Modbus, 0-50 ppm aluminum enclosure, Class I, Div. 2 with remote mount hardware	SPXCDULNH2RM
Carbon monoxide (CO) explosion proof transmitter (EC), 4-20 mA, 3 relays, Modbus, 0-200 ppm aluminum enclosure, Class I, Div. 2 with remote mount hardware	SPXCDULNC2RM
Hydrogen (H <sub>2</sub> ) explosion proof transmitter (EC), 4-20 mA, 3 relays, Modbus, 0-1,000 ppm aluminum enclosure, Class I, Div. 2 with remote mount hardware	SPXCDULNG2RM
Nitrogen dioxide (NO <sub>2</sub> ) explosion proof transmitter (EC), 4-20 mA, 3 relays, Modbus, 0-10 ppm aluminum enclosure, Class I, Div. 2 with remote mount hardware	SPXCDULNN2RM
Ammonia (NH <sub>3</sub> ) explosion proof transmitter (EC), 4-20 mA, 3 relays, Modbus, 0-50 ppm aluminum enclosure, Class I, Div. 2 with remote mount hardware	SPXCDULNA2RM
Chlorine (Cl <sub>2</sub> ) explosion proof transmitter (EC), 4-20 mA, 3 relays, Modbus, 0-5 ppm aluminum enclosure, Class I, Div. 2 with remote mount hardware	SPXCDULNL2RM
Sulfur dioxide (SO <sub>2</sub> ) explosion proof transmitter (EC), 4-20 mA, 3 relays, Modbus, 0-15 ppm aluminum enclosure, Class I, Div. 2 with remote mount hardware	SPXCDULNS2RM
Nitric oxide (NO) explosion proof transmitter (EC), 4-20 mA, 3 relays, Modbus, 0-100 ppm aluminum enclosure, Class I, Div. 2 with remote mount hardware	SPXCDULND2RM

EC: Electrochemical Cell / Cat Bead: Catalytic Bead / IR: Infrared

# Sensepoint® XCD RTD (continued)

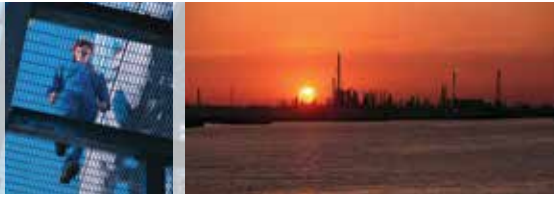
<b>XCD Sensors Class I, Div. 2</b>	<b>Order Number</b>
Oxygen (O <sub>2</sub> ) 0-25%Vol sensor	2106B1830
Hydrogen sulfide (H <sub>2</sub> S) 0-50 ppm sensor	2106B1801
Carbon monoxide (CO) 0-200 ppm sensor	2106B1806
Hydrogen (H <sub>2</sub> ) 0-1,000 ppm sensor	2106B1817
Nitrogen dioxide (NO <sub>2</sub> ) 0-10 ppm sensor	2106B1822
Ammonia (NH <sub>3</sub> ) 0-50 ppm sensor	2106B1813
Chlorine (Cl <sub>2</sub> ) 0-5 ppm sensor	2106B1810
Sulfur dioxide (SO <sub>2</sub> ) 0-15 ppm sensor	2106B1820
Nitric oxide (NO) 0-100 ppm sensor	2106B1818

<b>XCD Replacement Cells Class I, Div. 2</b>	<b>Order Number</b>
Oxygen (O <sub>2</sub> ) 0-25%Vol replacement cell kit	2106B1545
Hydrogen sulfide (H <sub>2</sub> S) 0-50 ppm replacement cell kit	2106B1549
Carbon monoxide (CO) 0-200 ppm Cell Kit	2106B1548
Hydrogen (H <sub>2</sub> ) 0-1,000 ppm replacement cell kit	2106B1597
Nitrogen dioxide (NO <sub>2</sub> ) 0-10 ppm replacement cell kit	2106B1599
Ammonia (NH <sub>3</sub> ) 0-50 ppm replacement cell kit	2106B1596
Chlorine (Cl <sub>2</sub> ) 0-5 ppm replacement cell kit	2106B1547
Sulfur dioxide (SO <sub>2</sub> ) 0-15 ppm replacement cell kit	2106B1546
Nitric oxide (NO) 0-100 ppm replacement cell kit	2106B1594

<b>XCD Spares and Accessories, Class I, Div. 2</b>	<b>Order Number</b>
Sensepoint XCD RTD transmitter, 4-20 mA, 3 relays, Modbus	SPXCDULNTX4M
Sensepoint XCD RTD remote junction box, 3 terminal	2430-0021
Series 2000 weather housing for use with toxic sensor	02000-A-1635
Series 2000 flow housing assembly	02000-A-1645
Series 2000 flow housing assembly plastic	02000-A-3120
Toxic calibration kit with calibration cover, removal tool, potentiometer adjustment tool	2106B2114

*Note: Flow housing (02000-A-1645) is required and must be ordered separately.*

<b>XCD RTD Calibration Kit</b>	<b>Part Number</b>
Sensepoint XCD RTD calibration kit - includes calibration cover, potentiometer, adjustment tool, flow housing, regulator and tubing (2106B2114, 02000-A-1645, 998-100-012, 998-100-003, 998-100-004)	XCDRTDKIT



# Sensepoint XCD RFD

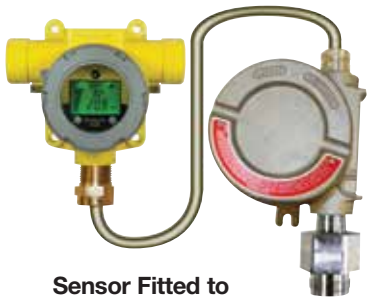
LEL (\*1-\*8)



**Transmitter Display**



**705 Sensor**



**Sensor Fitted to Remote Junction Box**

The Sensepoint RFD is a remote flammable detection system for LEL monitoring applications. The XCD RFD combines the XCD transmitter with the 705 combustibile sensor, and is certified for use in Class I Div. 1 rated areas. The XCD RFD offers one man, non-intrusive, operation and reduces routine maintenance time and costs. The XCD transmitter includes two programmable alarm/fault relays as well as an industry standard 4-20 mA output. Calibration and relay operation of the transmitter may be adjusted via the transmitters' backlit LCD. Outputs are automatically inhibited during adjustment thereby reducing the risk of false alarm at the control panel during maintenance.

Sensepoint RFD is supplied with all necessary accessories for easy installation. It can be mounted on a wall or 2 in. round support pole using the universal bracket provided. The detector is ideal for use with either conduit or steel wire armored cable and glands and includes both 3/4 in. NPT and M20 entries to the junction box.

Sensepoint RFD offers easy installation and fast routine operation. Compatible with both standard and high temperature variants of the Sensepoint and 705 flammable sensors from Honeywell Analytics the overall flexibility of the product range is increased. Meets Class I Div. 1 UL performance standards.

*Note: Conduit and fittings not included*

## Transmitter - cCSAus Certified for North America (Class I, Div. 1, Groups B, C & D)

### Part Number

Transmitter with LM25, 3/4 in. NPT entry, Modbus, aluminum

SPXCDULNRFDM

## Sensor

### Part Number

705 combustibile sensor - aluminum - cat bead (SG16B) 0-100% LEL, UL / CSA approved

00705-A-1733

705 high temperature combustibile sensor (150°C) 3/4 in. NPT threads, UL approved

00705-A-1735

## Junction Box

### Part Number

UL/CSA aluminum 3 wire junction box

2430-0021

## Kits - cCSAus Certified for North America (Class I, Div. 1, Groups B, C & D)

All kits include transmitter, sensor, and junction box.

### Part Number

Transmitter with LM25, 3/4 in. NPT entry, Modbus, aluminum, 705 sensor, and 3 wire junction box

XCDFDLM

Transmitter with LM25, 3/4 in. NPT entry, Modbus, aluminum, 705 High Temp sensor, and 3 wire junction box

XCDFDLMH

# Sensepoint XCD RFD (continued)

<b>Accessories</b>	<b>Part Number</b>
Pipe mounting bracket (inc. fixings and hex wrench set)	SPXCMTBR
Sunshade / deluge protection	SPXCSDP
Weather protection stainless steel for 705 HT	00780-A-0076
Nylon weather protection for combustible sensor	02000-A-1640
Weather protection housing	02000-A-1635
Duct mount adaptor assembly (requires 1283-1084)	1283-1047
Sensepoint adaptor interface kit (requires 1283-1047)	1283-1084
Calibration gas flow adaptor (for use with 705 sensors)	00780-A-0035
Collecting cone (for use with MPD, Sensepoint and 705 sensors)	02000-A-1642

<b>XCD RFD Calibration Kit</b>	<b>Part Number</b>
Sensepoint XCD RFD calibration kit - includes tubing, flow adaptor, regulator and carrying case (998-100-004, 00780-A-0035, 998-100-012 (1.5LPM), 998-100-003)	705CALKIT



# Self-Contained Breathing Apparatus (SCBA)

## Aluminum Cylinders



Honeywell Analytics' Self-Contained Breathing Apparatus (SCBA) meets the demands of industrial users who want the finest respiratory protection against environments that are Immediately Dangerous to Life or Health (IDLH). The SCBA is designed to be a basic industrial unit, yet provides superior safety and comfort for industrial needs. The SCBA is available in medium face piece/bell alarm or hooded with medium nose cup/plain whistle alarm configurations.

*Note: All cylinders are shipped fully charged.*

Breathing Apparatus	Order Number
SCBA, with low pressure 30 min. cylinder, medium facepiece, bell alarm	888888
SCBA, with low pressure 30 min. cylinder, hood with medium nose cup, plain whistle alarm	777777
SCBA, with high pressure 60 min. cylinder, medium facepiece, bell alarm	555555

Breathing Apparatus Accessories	Order Number
Spare 30 min. cylinder, low pressure	915140
Spare 60 min. cylinder, high pressure	917160
Video, use/maintenance SCBA	995613
CD-ROM, use/maintenance SCBA	995612
Aluminum case, deluxe unit with shelf for single SCBA	83219
Aluminum truck mounting bracket for SCBA	M-512890

# Midas®

## Extractive Gas Detector



$AsH_3$ ,  $B_2H_6$ ,  $BCl_3$ ,  $BF_3$ ,  $Br_2$ ,  $C_4F_6$ ,  $C_5F_8$ ,  $CH_2F_2$ ,  $CH_3F$ ,  $CH_4$ ,  $Cl_2$ ,  $ClO_2$ ,  $CO$ ,  $CO_2$ ,  $F_2$ ,  $GeH_4$ ,  $H_2$ ,  $H_2Cl_2Si$ ,  $H_2S$ ,  $HBr$ ,  $HCl$ ,  $HCN$ ,  $HF$ ,  $NF_3$ ,  $NH_3$ ,  $NO$ ,  $NO_2$ ,  $O_2$ ,  $O_3$ ,  $PH_3$ ,  $Si_2H_6$ ,  $SiH_4$ ,  $SO_2$ ,  $WF_6$



Extractive Midas® transmitters (universal) operate with sensor cartridges, for use as a local gas detector. Sensor Cartridges must be ordered separately. Units are powered by 24 Vdc or via Power over Ethernet (PoE). Transmitters provides 0-22 mA analog and Modbus/TCP Ethernet as standard outputs. Integral relays for A1, A2 and fault are included, and may be configured normally open or normally closed, latching or non-latching. Transmitters include (1) PG16 gland fitting for power in and relays out, 1/4 in. O.D.x 1/8 in. I.D. Sample Inlet tubing (10 ft. / 3m), 1/4 in. O.D x 3/16 in. I.D. Exhaust tubing (10 ft. / 3m), and a sample line tubing duct adapter (1283K1090).

*Note: Order a sensor cartridge separately for each transmitter.*

### Applications

- Hospitals
- School Labs
- Chemical Storage Areas

### Certifications

- Intertek Classified to: UL 61010-1; and CSA C22.2 No. 61010-1-04
- Intertek tested to EN 61010

### Extractive Transmitter for Universal Gas Detection

Midas® Extractive Transmitter

### Order Number

MIDAS-T-001



### Pyrolyzer Module for $NF_3$ Gas Detection (order separate transmitter unit)

Pyrolyzer Midas® transmitters provide detection of  $NF_3$  specifically. Unit includes a snap on pyrolyzer module that operates with any Universal Midas® Extractive Transmitter (order separately) and (1) Freon in line filter. Units are powered via direct connection to transmitter unit.

Midas® Pyrolyzer Module

### Order Number

MIDAS-T-00P

*Note: Order the  $NF_3$  cartridge (MIDAS-S-HFX) and ventilated top cover (MIDAS-A-039) separately.*

### High Temperature Pyrolyzer Module for Perfluoro Compounds (PFC) Gas Detection

High Temperature Pyrolyzer Midas® transmitters provide detection of  $C_4F_6$ ,  $C_5F_8$  and other gases. Unit includes a snap on pyrolyzer module that operates with any Universal Midas® Extractive Transmitter (order separately). Units are powered via direct connection to transmitter unit. Pyrolyzer includes installation screws.

Midas® High Temperature Pyrolyzer Module

### Order Number

MIDAS-T-HTP

*Note: Order transmitter unit, PFC cartridge (MIDAS-S-CFX) and ventilated top cover (MIDAS-A-039) separately.*

### LonWorks Module for Midas® Transmitter Connection

Optional LonWorks interface module that mounts to and connects with any single, universal Midas® extractive transmitter with or without Pyrolyzer (order these separately) to provide bi-directional LonWorks connectivity; remote reset and remote control of the onboard relays. Unit is 24 Vdc powered and provides power and communications directly to the attached Midas® transmitter using special Ethernet cross over cable (supplied). Includes mounting bracket to the Midas® transmitter; rear panel installation screws are not supplied.

Midas® LonWorks Interface Module

### Order Number

MIDAS-T-LON

### Quad LonWorks Module for External Transmitter Connection

Optional Modbus/TCP to LonWorks converter gateway that can connect up to 4 Midas® transmitters (with or without Pyrolyzers) to a LonWorks network. Requires separate 24 Vdc power supply and Ethernet connector cables. Suitable for DIN rail mounting. Consult Honeywell Analytics for full technical details. Access to LonMaker programming is required (not included).

Midas® Quad LonWorks Module

### Order Number

MIDAS-A-035

### Midas® Transmitter and Cartridge Combined Kits

A complete kit including one universal Midas® transmitter unit (Midas-T-001) and one Midas® sensor cartridge can be ordered as a combined package. Each cartridge is supplied with an extended 2 year warranty. This is the recommended kit for a new installation of a complete gas detection circuit. Cartridge and Transmitter are packaged separately for ease of installation. The detectable range is listed (outside of deadband). With the exception of O<sub>2</sub> (where ambient concentration is typically 20.9%), the sensors will display zero when no gas is present.

	Order Number
Ammonia (NH <sub>3</sub> )	MIDAS-K-NH3
Arsine (AsH <sub>3</sub> ), germane (GeH <sub>4</sub> )	MIDAS-K-ASH
Boron trichloride (BCl <sub>3</sub> ), dichlorosilane (H <sub>2</sub> Cl <sub>2</sub> Si), hydrogen bromide (HBr), hydrogen chloride (HCl)	MIDAS-K-HCL
Boron trifluoride (BF <sub>3</sub> ), hydrogen fluoride (HF), nitrogen trifluoride (NF <sub>3</sub> ) <i>Note: Must order MIDAS-T-00P Pyro, tungsten hexafluoride (WF<sub>6</sub>)</i>	MIDAS-K-HFX
Boron trifluoride (BF <sub>3</sub> ), low level, hydrogen fluoride (HF), low level (LDL = 0.22 ppm), tungsten hexafluoride (WF <sub>6</sub> ), low level	MIDAS-K-HFL
Bromine (Br <sub>2</sub> ), chlorine dioxide (ClO <sub>2</sub> )	MIDAS-K-BR2
Difluoromethane (CH <sub>2</sub> F <sub>2</sub> ) <i>Note: Contact your local RSM or Inside Sales for special ordering requirements.</i>	MIDAS-K-CFX
Carbon dioxide (CO <sub>2</sub> )	MIDAS-K-CO2
Carbon monoxide (CO)	MIDAS-K-COX
Chlorine (Cl <sub>2</sub> ), fluorine (F <sub>2</sub> )	MIDAS-K-HAL
Hydrogen (H <sub>2</sub> )	MIDAS-K-H2X
Hydrogen cyanide (HCN)	MIDAS-K-HCN
Hydrogen sulfide (H <sub>2</sub> S)	MIDAS-K-H2S
Hydrogen (H <sub>2</sub> ), methane (CH <sub>4</sub> )	MIDAS-K-LEL
Nitric oxide (NO)	MIDAS-K-NOX
Nitrogen dioxide (NO <sub>2</sub> )	MIDAS-K-NO2
Oxygen (O <sub>2</sub> )	MIDAS-K-O2X
Ozone (O <sub>3</sub> )	MIDAS-K-O3X
Phosphine (PH <sub>3</sub> )	MIDAS-K-PH3
Silane (SiH <sub>4</sub> ) (low level)	MIDAS-K-SHL
Silane (SiH <sub>4</sub> ), disilane (Si <sub>2</sub> H <sub>6</sub> )	MIDAS-K-SHX
Sulfur dioxide (SO <sub>2</sub> )	MIDAS-K-SO2
TEOS	MIDAS-K-TEO

*Note: To detect NF<sub>3</sub>, a separate pyrolyzer module (MIDAS-T-00P) must also be ordered.*

# Midas® Extractive Gas Detector (continued)

<b>Mounting Accessories</b>	<b>Order Number</b>
Midas® "L" bracket for vertical mounting	MIDAS-A-032
Midas® DIN rail mounting kit	MIDAS-A-036
Ventilated Midas® top cover for pyrolyzer applications	MIDAS-A-039
Flexible conduit, 21 in. length	0235-0128
Flexible conduit, 27 in. length	0235-0163
2A 24 V <sub>DC</sub> power supply in vented NEMA 4 enclosure	MVIP3632-2A
5A 24 V <sub>DC</sub> power supply in vented NEMA 4 enclosure	MVIP3632-5A

<b>Duct Sampling Adaptors</b>	<b>Order Number</b>
Duct adapter for 1/4 in. O.D. tubing for 4-16 in. round ducts	1283K1090
Union fitting 1/4 in. tube, polypropylene	0235-0095

<b>Tubing and External Sample Line Filters</b>	<b>Order Number</b>
End of line particulate filter, disposable	780248
End of line particulate filter for corrosive gases, this disposable filter provides protection against particulate build up in the sample line when monitoring for corrosive gases.	1991-0147
Union fitting - use to connect disposable filter to end of line	0235-0095
End of line particulate filter for corrosive gases, this reusable filter housing provides protection against particulate build up in the sample line when monitoring for corrosive gases. Replaceable filter element (P/N 0235-1072) purchased separately	1830-0055
Replacement "corrosive" filter elements (pack of 100), for use in 1830-0055 filter housing	0235-1072
Freon filter for NF <sub>3</sub> pyrolyzing gas detector	1830-0027
Freon filter for NF <sub>3</sub> pyrolyzing gas detector (extended life) <i>Note: Not for use with C<sub>4</sub>F<sub>6</sub>, C<sub>5</sub>F<sub>8</sub>, CH<sub>3</sub>F, CH<sub>2</sub>F<sub>2</sub> pyrolyzers</i>	1830-0080
Tubing Teflon® FEP 1/4 in. OD x 1/8 in. ID (sample inlet)	102599
Tubing Teflon® FEP 1/4 in. OD x 1/8 in. ID (sample Inlet) (100 ft. continuous length)	1991-0136
Tubing polypropylene 1/4 in. OD X 3/16 in. ID (exhaust)	100440
Tubing polypropylene 1/4 in. OD X 3/16 in. ID (exhaust) (100 ft. continuous length)	1991-0137



# Midas® Extractive Gas Detector (continued)

## Midas® Sensor Cartridges

Cartridges are required for all of the above transmitters sensors at time of purchase and for replacement. Several Midas® cartridges can be configured via the transmitter to read a number of different gases based on a common chemical family. Actual details for the sensor detection range are included in the sensor cartridge data sheet and the Midas® technical manual. Midas® sensor cartridges can be ordered as part of a Kit with the universal Midas® transmitter, or as a replacement part with either standard or extended warranty cover. The detectable range is listed (outside of deadband). With the exception of O<sub>2</sub> (where ambient concentration is typically 20.9%), the sensors will display zero when no gas is present.



	Order Number
Ammonia (NH <sub>3</sub> )	MIDAS-E-NH3
Arsine (AsH <sub>3</sub> ), germane (GeH <sub>4</sub> )	MIDAS-E-ASH
Boron trichloride (BCl <sub>3</sub> ), dichlorosilane (H <sub>2</sub> Cl <sub>2</sub> Si), hydrogen bromide (HBr), hydrogen chloride (HCl)	MIDAS-E-HCL
Boron trifluoride (BF <sub>3</sub> ), hydrogen fluoride (HF), nitrogen trifluoride (NF <sub>3</sub> ), tungsten hexafluoride (WF <sub>6</sub> )	MIDAS-E-HFX
Boron trifluoride (BF <sub>3</sub> ), low level, hydrogen fluoride (HF), low level (LDL = 0.22 ppm), tungsten hexafluoride (WF <sub>6</sub> ), low level	MIDAS-E-HFL
Bromine (Br <sub>2</sub> ), chlorine dioxide (ClO <sub>2</sub> )	MIDAS-E-BR2
Difluoromethane (CH <sub>2</sub> F <sub>2</sub> ), hexafluorobutadiene (C <sub>4</sub> F <sub>6</sub> ), methyl fluoride (CH <sub>3</sub> F), octofluorocyclopentene (C <sub>5</sub> F <sub>8</sub> ), sulfur hexafluoride (SF <sub>6</sub> )	MIDAS-E-CFX
Carbon dioxide (CO <sub>2</sub> )	MIDAS-E-CO2
Carbon monoxide (CO)	MIDAS-E-COX
Chlorine (Cl <sub>2</sub> ), fluorine (F <sub>2</sub> )	MIDAS-E-HAL
Diborane (B <sub>2</sub> H <sub>6</sub> )	MIDAS-E-B2H
Hydrogen (H <sub>2</sub> )	MIDAS-E-H2X
Hydrogen cyanide (HCN)	MIDAS-E-HCN
Hydrogen sulfide (H <sub>2</sub> S)	MIDAS-E-H2S
Hydrogen (H <sub>2</sub> ), methane (CH <sub>4</sub> )	MIDAS-E-LEL
Nitric oxide (NO)	MIDAS-E-NOX
Nitrogen dioxide (NO <sub>2</sub> )	MIDAS-E-NO2
Oxygen (O <sub>2</sub> )	MIDAS-E-O2X
Ozone (O <sub>3</sub> )	MIDAS-E-O3X
Ozone (O <sub>3</sub> ) (high level)	MIDAS-E-O3H
Phosphine (PH <sub>3</sub> )	MIDAS-E-PH3
Silane (SiH <sub>4</sub> ) (low level)	MIDAS-E-SHL
Silane (SiH <sub>4</sub> ), disilane (Si <sub>2</sub> H <sub>6</sub> )	MIDAS-E-SHX
Sulfur dioxide (SO <sub>2</sub> )	MIDAS-E-SO2
TEOS	MIDAS-E-TEO

# Commercial Accessories



Strobe-Horn	Model Number	Order Number
DC strobe and horn (P4W-P)	FHS-240	P4W-P
Strobe and horn RED lens - 120 V <sub>AC</sub> - indoor application	STASR	M-503258
Strobe and horn BLUE lens - 120 V <sub>AC</sub> - indoor application	STASB	M-500902
Strobe and horn AMBER lens - 120 V <sub>AC</sub> - indoor application	STASA	M-503257
2-wire horn strobe, standard candela, white, wall, 12 or 24 V <sub>DC</sub>	P2W-P	P2W-P
2-wire horn strobe, high candela, white, wall, 12 or 24 V <sub>DC</sub>	P2WH-P	P2WH-P
2-wire outdoor horn strobe, standard candela, white, wall, 12 or 24 V <sub>DC</sub>	P2WK-P	P2WK-P
2-wire outdoor horn strobe, high candela, white, wall, 12 or 24 V <sub>DC</sub>	P2WHK-P	P2WHK-P
2-wire horn strobe, standard candela, white, ceiling, 12 or 24 V <sub>DC</sub>	PC2W-P	PC2W-P
2-wire horn strobe, high candela, white, ceiling, 12 or 24 V <sub>DC</sub>	PC2WH-P	PC2WH-P
Strobe and horn, RED lens, 24 V <sub>AC</sub> , indoor or outdoor	STASR24VAC	M-506949
Strobe and horn, BLUE lens, 24 V <sub>AC</sub> , indoor or outdoor	STASB24VAC	M-512023
Strobe and horn, AMBER lens, 24 V <sub>AC</sub> , indoor or outdoor	STASA24VAC	M-512024
Stackable base with horn - 120 V <sub>AC</sub> - indoor or outdoor	STACKSTASBASE	M-500877
Stackable strobe - RED Lens - 120 V <sub>AC</sub> - indoor or outdoor	STACKSTASR	M-501809
Stackable strobe - BLUE Lens - 120 V <sub>AC</sub> - indoor or outdoor	STACKSTASB	M-501807
Stackable strobe - AMBER Lens - 120 V <sub>AC</sub> - indoor or outdoor	STACKSTASA	M-501806
MT4 multitone strobe	WHEELLOCK	WH-126143

Strobe	Model Number	Order Number
Strobe RED lens - 120 V <sub>AC</sub> - indoor or outdoor application	STAS50R120V	M-502831
Strobe BLUE lens - 120 V <sub>AC</sub> - indoor or outdoor application	STAS50B120V	M-500901
Strobe AMBER lens - 120 V <sub>AC</sub> - indoor or outdoor application	STAS50A120V	M-500710
Strobe (NEMA 4X) RED - 120 V <sub>AC</sub> - Div. 2 hazardous loc	STASHAZR120V	M-502022
Strobe (NEMA 4X) BLUE - 120 V <sub>AC</sub> - Div. 2 hazardous loc	STASHAZB120V	M-502021
Strobe (NEMA 4X) AMBER - 120 V <sub>AC</sub> - Div. 2 hazardous loc	STASHAZA120V	M-502020
Explosion Proof strobe - 120 V <sub>AC</sub> - Class I, Div. 1 - wall mount	STASDEFMUR120	M-501763
Strobe, standard candela, white, wall mount	SW-P	SW-P
Strobe, standard candela, white, ceiling mount	SCW-P	SCW-P
Strobe, high candela, white, wall mount	SWH-P	SWH-P
Outdoor strobe, standard candela, white, wall mount	SWK-P	SWK-P
Outdoor strobe, high candela, white, wall mount	SWHK-P	SWHK-P
Speaker strobe, standard candela, white, wall mount	SPSW-P	SPSW-P
Speaker strobe, high candela, white, wall mount	SPSWH-P	SPSWH-P
Speaker strobe, standard candela, high dB, white, wall mount	SPSWW-P	SPSWW-P
Outdoor speaker strobe, standard candela, white, wall mount	SPSWK-P	SPSWK-P

# Commercial Accessories

<b>Horn</b>	<b>Model Number</b>	<b>Order Number</b>
Horn - 120 V <sub>AC</sub> - indoor application	HORN120VAC	M-503973
Horn (NEMA 4X) - 120 V <sub>AC</sub> - indoor or outdoor application	HORNWith P120V	M-503974
Explosion proof horn - 120 V <sub>AC</sub> - Class I Div. 1 and 2, tone selectable	HORNEXPL120VTS	0130-0018
Explosion proof horn - 120 V <sub>AC</sub> - Class I Div. 1	HORNEXPL120V	M-501767

<b>Lens</b>	<b>Model Number</b>	<b>Order Number</b>
Wall mount lens attachment, blue	LENS-B	LENS-B
Wall mount lens attachment, red	LENS-R	LENS-R
Wall mount lens attachment, amber	LENS-A	LENS-A
Wall mount lens attachment, green	LENS-G	LENS-G

<b>Power Supplies</b>	<b>Model Number</b>	<b>Order Number</b>
120 V <sub>AC</sub> adapter mounting plate	MP120K	MP120K
Transformer 50 VA	VA201TA50	M-503380

<b>Power Supplies: UL or UL/cUL Approved</b>	<b>Model Number</b>	<b>Order Number</b>
12/24 V <sub>DC</sub> power supply, UL/cUL listed, 2.5A @ 24 V <sub>DC</sub>	HPV5DC8UL	HPV5DC8UL
24 V <sub>AC</sub> /V <sub>DC</sub> power supply, 6.5A UL approved	PS-24-150-N12	M-600400
24 V <sub>AC</sub> power supply, UL/cUL listed, 100 VA	HPTV2404UL	HPTV2404UL
24 V <sub>AC</sub> power supply, UL/cUL listed, 200 VA	HPV2401UL	HPV2401UL
24 V <sub>AC</sub> power supply, UL/cUL listed, 400 VA	HPV2416-1UL	HPV2416-1UL

<b>Uninterruptable Power Supplies (UPS)</b>	<b>Model Number</b>	<b>Order Number</b>
APC Smart-UPS XL 750 VA USB and Serial 120V	UPS750VA120V	M-507960
APC Smart-UPS XL 1000 VA USB and Serial 120V	UPS1000VA120V	M-508370
Battery unit for APC Smart-UPS	UPSAPCBP	M-508371

# Calibration Equipment



## Gas Legend

% LEL	Combustibles	Cl <sub>2</sub>	Chlorine	N <sub>2</sub>	Nitrogen
CBrF <sub>3</sub> / R13B1	Trifluorobromomethane	ClO <sub>2</sub>	Chlorine dioxide	NH <sub>3</sub>	Ammonia
CCl <sub>3</sub> F / R11	Trichloromonofluoromethane	CO	Carbon monoxide	NO <sub>2</sub>	Nitrogen dioxide
CF <sub>3</sub> -CH <sub>2</sub> F / R134A	1,1,1,2-Tetrafluoroethane	CO <sub>2</sub>	Carbon dioxide	O <sub>2</sub>	Oxygen
CH <sub>2</sub> F <sub>2</sub> / R32	Difluoromethane	C <sub>3</sub> H <sub>8</sub>	Propane	O <sub>3</sub>	Ozone
CH <sub>3</sub> CHF <sub>2</sub> / R125	Pentafluoroethane	ETO	Ethylene oxide	PH <sub>3</sub>	Phosphine
CH <sub>4</sub>	Methane	H <sub>2</sub> S	Hydrogen sulfide	SO <sub>2</sub>	Sulfur dioxide
CHCl <sub>2</sub> CF <sub>3</sub> / R123	Dichlorotrifluoroethane	HCl	Hydrogen chloride	VOCs	Volatile organic compounds
CHClF <sub>2</sub> / R22	Chlorodifluoromethane	HCN	Hydrogen cyanide		

## Calibration Kits

	Order Number
Cal kit for 58-103L cylinders (all products except SQN8x, AirScan™ IR-F9 and XCD)	1309K0002
Sensepoint XCD combustilbe calibration kit	XDCOMBKIT
Sensepoint XCD toxic calibration kit	XCDTOXKIT
Sensepoint XCD RTD calibration kit - includes calibration cover, potentiometer, adjustment tool, flow housing, regulator and tubing (2106B2114, 02000-A-1645, 998-100-012, 998-100-003, 998-100-004)	XCDRTDKIT
Sensepoint XCD RFD calibration kit - includes tubing, flow adaptor, regulator and carrying case (998-100-004, 00780-A-0035, 998-100-012 (1.5LPM), 998-100-003)	705CALKIT
AirScan™ IR-F9 calibration kit for use with 58/103L cylinders	11337-L9
Demand flow regulator 58-103L cylinders, 0-3LPM for SQN8x	M-700144
Cal kit tubing 6 ft. 1/8 in. I.D. X 1/4 in. O.D. for SQN8x	M-501062
Bump test kit; includes balloon adapter and quad gas cylinder: H <sub>2</sub> S (40 ppm), CO (200 ppm), CH <sub>4</sub> (2.5%), O <sub>2</sub> (10%)	TEST-1A

## 58L Calibration Gas Cylinders

	Balance	Liters	Order Number
NH <sub>3</sub> (25 ppm)	N <sub>2</sub>	58	GFV213
NH <sub>3</sub> (50 ppm)	N <sub>2</sub>	58	2992-0015
NH <sub>3</sub> (100 ppm)	Air	58	M-501041
NH <sub>3</sub> (500 ppm)	Air	58	M-507546
H <sub>2</sub> S (25 ppm)	N <sub>2</sub>	58	M-501046
NO <sub>2</sub> (5 ppm)	N <sub>2</sub>	58	M-501054
Cl <sub>2</sub> (5 ppm)	N <sub>2</sub>	58	M-501052
NO (100 ppm)	N <sub>2</sub>	58	2992-0035
SO <sub>2</sub> (5 ppm)	N <sub>2</sub>	58	M-501055

## 103L Calibration Gas Cylinders

	Balance	Liters	Order Number
Air	Air	103	M-501008
N <sub>2</sub>	N <sub>2</sub>	103	M-501011
CH <sub>4</sub> (1% / 20% LEL)	Air	103	M-500975

(continued next page)

# Calibration Equipment

<b>103L Calibration Gas Cylinders (cont'd)</b>	<b>Balance</b>	<b>Liters</b>	<b>Order Number</b>
CH <sub>4</sub> (25% LEL)	Air	103	998-012-001
CH <sub>4</sub> (50% LEL)	Air	103	998-022-001
C <sub>3</sub> H <sub>8</sub> (20% LEL)	Air	103	M-507700
C <sub>3</sub> H <sub>8</sub> (50% LEL)	Air	103	998-022-002
C <sub>2</sub> H <sub>4</sub> (50% LEL)	Air	103	998-022-004
H <sub>2</sub> (1% / 20% LEL)	Air	103	M-500976
H <sub>2</sub> (500 ppm)	Air	103	1991-0159
O <sub>2</sub> (20%)	N <sub>2</sub>	103	M-500986
O <sub>2</sub> (20.9%)	N <sub>2</sub>	103	M-508161
CO (200 ppm)	N <sub>2</sub>	103	M-500988
CO <sub>2</sub> (1,000 ppm)	N <sub>2</sub>	103	M-501010
CO <sub>2</sub> (2,000 ppm)	N <sub>2</sub>	103	M-500989
CCl <sub>3</sub> F (R11) (500 ppm)	N <sub>2</sub>	103	M-501012
CBrF <sub>3</sub> (R13B1) (500 ppm)	N <sub>2</sub>	103	M-511687
CHClF <sub>2</sub> (R22) (500 ppm)	N <sub>2</sub>	103	M-501005
CHCl <sub>2</sub> CF <sub>3</sub> (R123) (500 ppm)	N <sub>2</sub>	103	M-501003
CH <sub>3</sub> CHF <sub>2</sub> (R125) (500 ppm)	N <sub>2</sub>	103	M-501004
CF <sub>3</sub> -CH <sub>2</sub> F (R134A) (500 ppm)	N <sub>2</sub>	103	M-504530
HFO-1234yf (500 ppm)	N <sub>2</sub>	103	GFV543
HFO-1234yf (1000 ppm)	N <sub>2</sub>	103	GFV544
HFO-1234yf (3000 ppm)	N <sub>2</sub>	103	GFV545
R4310 (500 ppm)	N <sub>2</sub>	103	0320-1024
Blend of R125, R143A and R134A (R404A) (500 ppm)	N <sub>2</sub>	103	M-509316
Blend of R32, R125 and R134A (R407C) (500 ppm)	N <sub>2</sub>	103	M-511688
Blend of R32 and R125 (R410) (500 ppm)	N <sub>2</sub>	103	M-511942
50/50 Blend of R32 and R125 (R507) (500 ppm)	N <sub>2</sub>	103	M-509317

<b>103L Calibration Gas Cylinders: 100 ppm Refrigerant Calibration Gas; Designed for testing AirScan™ IR-F9, CARB 32 Units</b>	<b>Balance</b>	<b>Liters</b>	<b>Order Number</b>
CHClF <sub>2</sub> (R22) (100 ppm)	N <sub>2</sub>	103	GFV541
CHCl <sub>2</sub> CF <sub>3</sub> (R123) (100 ppm)	N <sub>2</sub>	103	M-500981
CF <sub>3</sub> -CH <sub>2</sub> F (R134A) (100 ppm)	N <sub>2</sub>	103	GFV542
Blend of R143A, R125 and R134A (R404A) (100 ppm)	N <sub>2</sub>	103	GFV540
Blend of R32, R125 and R134A (R407C) (100 ppm)	N <sub>2</sub>	103	GFV539
Blend of R32 and R125 (R410) (100 ppm)	N <sub>2</sub>	103	GFV537
50/50 Blend of R32 and R125 (R507) (100 ppm)	N <sub>2</sub>	103	GFV538

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Whatever industry you're in, we have the levels of support that are right for your business.

It's your business. It's your industry.

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