



GAS DETECTION SENSORS

Serving OEMs, Distributors, and Contractors with Application Solutions for: Demand Control Ventilation, Office Buildings, Schools, Gymnasiums, Shopping Malls, Convention Centers, Theaters, Restaurants, Hotels, Arenas, Loading Docks, Parking Garages, Warehouses, Hospitals, Labs, and Charging Stations.

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Automation Components, Inc.

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Applications:

- Demand Control Ventilation
- Office Buildings
- Schools, Gymnasiums
- Shopping Malls
- Convention Centers
- Theaters, Restaurants
- Hotels, Arenas
- Loading Docks
- Parking Garages
- Warehouses
- Hospitals
- Labs
- Charging Stations

GAS

From demand control ventilation (DCV) to indoor air quality (IAQ) to toxic and combustible gases, ACI's line of gas sensors will solve the most challenging applications with the fewest devices and lowest total installed cost.



CO2 SERIES [ROOM & DUCT]

The CO2 series monitors CO2 levels in industrial, school, and office environments. They are based on a single beam, non-dispersive infrared technology and are cost-efficient solutions for measuring CO2 levels for DCV. In addition, ABC software eliminates the need for manual calibration. The factory default analog output is 4–20 mA with field-selectable 0–5 VDC and 0–10 VDC options.



CO & NO2 SERIES [ROOM, DUCT, & NEMA 4X]

The CO & NO2 series are low-cost, accurate solutions to measure CO & NO2 gases in a variety of indoor and duct applications. The sensors use a long-lasting electrochemical sensor, provide an analog output, and are available with optional LCD, relays, buzzer alarm, or NEMA 4X housing.



Q5/B5 SERIES [TOXIC/COMBUSTIBLE]

The Q5 (analog) and B5 (BACnet™ MS/TP) are smart toxic or combustible gas sensors that feature a precalibrated replaceable sensing element and an IP66/NEMA 4X enclosure. On-board relays allow for control as a stand-alone device.



Q6/B6 SERIES [TOXIC/COMBUSTIBLE]

The Q6/B6 series are combination toxic/combustible gas sensors that use a main and remote device to maximize installation flexibility and minimize control inputs. Available with Modbus (Q6) or BACnet™ MS/TP (B6) outputs and features easy setup, programming, and calibration.



QTS-1710 [COMBUSTIBLE]

The QTS-1710 is a combustible gas sensor with a Class 1, Div. 1 rated explosion-proof enclosure. It has an analog output and test jacks for easy testing and verification.



Q8/B8 SERIES [TOXIC/COMBUSTIBLE]

The Q8 (analog) and B8 (BACnet™ MS/TP) is a Class 1, Div. 1 rated combustible gas sensor with LCD, relays, and remote sensor options. The LCD shows concentration, relay status, STEL, TWA, and peak daily value of the detected gas.



QIRF [FREON]

The QIRF uses an infrared sensor to detect specific Freons without any cross-sensitivity or interference. It can provide an analog output or connect via RS-485 to either the M-Controller or Q4C controller.



Q4C

The Q4C is a multichannel controller with display and alarm that utilizes digital communications to interface with a maximum of four remote digital transmitters/sensors. It is used to measure a wide variety of toxic gases such as CO, NO₂, NH₃, H₂S, SO₂, refrigerants, and/or combustibles. The RS-485 communication is connected via a four-wire multi-drop daisy chain configuration to reduce the overall installation costs of the system.



M-CONTROLLER

The M-Controller is a multichannel controller and alarm unit that utilizes both digital and analog communications to interface with a maximum of 32 remote digital transmitters/sensors and eight analog transmitters/sensors. Range and alarm setpoints are set through the front keypad or through software that is downloaded to the controller from a PC.



Q-CONTROLLER

The Q-Controller system uses a RS-485 communication protocol that accommodates 128 channels through four digital ports. In addition, there are 128 analog inputs from any 4–20 mA device and 128 4–20 mA outputs. There are also up to 128 binary inputs and 128 binary outputs. A wireless communication option allows for programming and data downloads via smartphone or tablet.





STROBE & ALARM

Multifunctional LED beacon with multiple inputs and three separate levels of alarm (alert, pre-alarm, alarm) is controlled via independent electric contacts. Channel one includes a simulated strobe (triple flash) visual signal only. Channel two adds an audible signal, selectable from 32 tones to the simulated strobe effect. Channel three includes a steady light and a second, unique signal selectable from 32 different tones.



TSENSE [CO₂, TEMP, AND HUMIDITY]

TSENSE is a versatile 3-in-1 transmitter for indoor applications. It measures CO₂, temperature, and humidity and provides an analog, BACnet™ MS/TP, or Modbus RTU signal along with a backlit touchscreen LCD.



ESENSE [OUTDOOR CO₂]

The ESENSE-OUTDOOR features a NDIR sensor to provide an analog output. It has an in-line thermostat inside the IP65 housing for an accurate CO₂ reading regardless of weather conditions.



VOC [VOLATILE ORGANIC COMPOUND]

ACI's VOC sensors are designed to monitor gases emitted from certain solids or liquids such as building materials and furnishings, office equipment, cleaning products, disinfectants, etc. These units utilize a high-performance metal oxide sensor and will output TVOC levels from 0–1000 ppb. All units come equipped with both analog and RS-485 Modbus RTU outputs to easily interface with existing BAS systems.



PM_{2.5} & PM₁₀ [PARTICULATE MATTER]

PM_{2.5} and PM₁₀ sensors are laser particulate matter sensors that detect particles from 0.3–2.5 µm or 0.3–10.0 µm and output concentration levels from 0–500 µg/m³. All units come equipped with both analog and RS-485 Modbus RTU outputs to easily interface with existing BAS systems.





WE HAVE YOU COVERED!



From engineering and design services to installation and troubleshooting, our Technical Support Team offers expert support for every customer and every application. Our Sales and Customer Support Teams can help with quotes, order status, invoicing, and many product spec and application questions.

CONTACT US

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STAY CONNECTED

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