



**Make your operation run more intelligently to protect people, property and your bottom line**

# E<sup>3</sup>Point Toxic and Combustible Gas Monitor



## 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, 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

## Electrical Certifications

- US (ANSI/UL 61010-1)
- Canada (CSA C22.2 No. 61010-1)

\* pending - call your sales rep for information

**E<sup>3</sup>Point goes beyond protection to offer your building greater performance and productivity.**



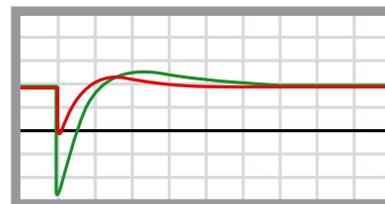
## Plug-N-Play Ease

E<sup>3</sup>Point's plug-n-play sensor is factory calibrated and works out of the box. Upon installation, E<sup>3</sup>Point automatically configures for quick operation. You benefit from easier installation and maintenance, and greater adaptability to changing building and safety requirements.

## Reflex<sup>®</sup> Keeps You Safer

Only Honeywell's patented Reflex<sup>®</sup> technology adds this extra degree of precision and diligence to sensor monitoring to make doubly sure you're safe. Reflex bounces electrical signals into the E<sup>3</sup>Point electrochemical sensor cell at regular intervals, a form of electronic bump testing and continuous monitoring of cell response.

**Oscilloscope graph shows cell responding to Reflex pulse, indicating sensor condition.**



**GREEN** shows optimal sensor condition (dynamic responsiveness to gas).

**RED** shows degraded sensor condition (indicating cell dry-out or failure).

**Efficient Operations + Energy Savings + Economical Value = E<sup>3</sup>Point**

Smart sensor design, extreme temperature range, etc. optimize building performance

On-demand ventilation controls energy use

Reduces cost of installation, operation and maintenance

# Flexible Applications



E<sup>3</sup>Point integrates easily with your building's analog or digital infrastructure as a standalone unit or network addressable device. Here are four installation examples to make E<sup>3</sup>Point work for you.

## E<sup>3</sup>Point Standalone Single-Sensor Operation

A low-cost application for buildings with minimal gas monitoring requirements typical of a small facility. Offers easy installation, commissioning and operation. Two on-board relays can activate fan or strobe.



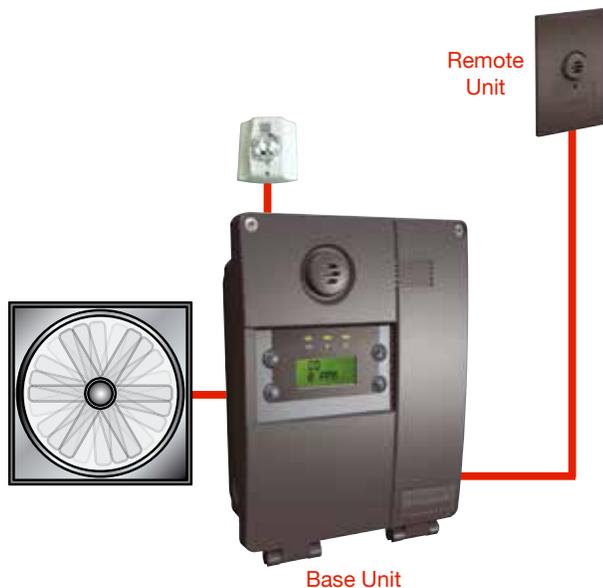
## E<sup>3</sup>Point/Modbus Configuration



Supports Modbus protocol to daisy-chain E<sup>3</sup>Point detectors, providing up to 96 points of monitoring on a serial bus. Excellent option for controller-based (VA301C) installations common in larger applications. A relay output is provided as an option for activating ventilation directly (e.g. when fan is located in close proximity to detector).

## E<sup>3</sup>Point Standalone Dual-Gas Sensor Operation

Economical application adds option of a second (remote) sensor for dual gas monitoring. Two on-board relays can activate ventilation or strobes.

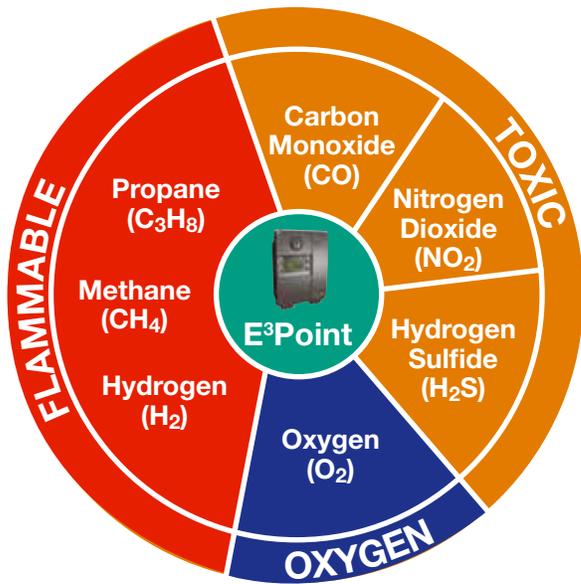


## E<sup>3</sup>Point/BACnet IP Configuration



E<sup>3</sup>Point outputs directly to BACnet or other BAS. Alarms, strobes and horns are activated through BAS with link to DCV/HVAC controls. This system design supports new and retrofit installations for large buildings, and can couple with a controller to effectively integrate wired system components. A relay output is provided as an option for activating ventilation directly (e.g. when fan is located in close proximity to detector).

## Dual-Gas Detection In Many Combinations



E³Point's standalone, dual-gas configuration monitors two gases simultaneously and cost effectively, in any of the following combinations: **toxic-toxic**, **toxic-combustible**, **oxygen-toxic**, or **oxygen-combustible**.

## E³Point Expands the Range of Gas Detection to Serve Practically All Building Areas, Including Outbuildings

	Building Environment	Gases Present (Detected by E³Point)
	Parking Structure	CO, NO <sub>2</sub> , C <sub>3</sub> H <sub>8</sub>
	Loading Dock	CO, NO <sub>2</sub> , C <sub>3</sub> H <sub>8</sub> , H <sub>2</sub>
	Transport Terminal	CO, NO <sub>2</sub> , C <sub>3</sub> H <sub>8</sub> , CH <sub>4</sub>
	Golf Cart Maintenance/ Battery Charging Area	CO, NO <sub>2</sub> , CH <sub>4</sub> , O <sub>2</sub> , H <sub>2</sub>
	Maintenance Garage	CO, NO <sub>2</sub> , C <sub>3</sub> H <sub>8</sub> , O <sub>2</sub> , H <sub>2</sub> S, H <sub>2</sub>
	Hospital/Ambulance Bay	CO, NO <sub>2</sub> , C <sub>3</sub> H <sub>8</sub> , O <sub>2</sub>
	Fire/Police Station	CO, NO <sub>2</sub> , C <sub>3</sub> H <sub>8</sub> , O <sub>2</sub> , H <sub>2</sub> , H <sub>2</sub> S
	Boiler Room	CO, CH <sub>4</sub> , C <sub>3</sub> H <sub>8</sub>
	Battery Charging Rooms & Hydrogen Tanks	H <sub>2</sub>
	Commercial Kitchen	C <sub>3</sub> H <sub>8</sub> , CO, CH <sub>4</sub>
	Indoor Stadium/Arena	CH <sub>4</sub> , CO, C <sub>3</sub> H <sub>8</sub>

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