





## E<sup>3</sup>Point SPECIFICATIONS

### Toxic and Combustible Gas Detector Network Platform (BACnet MS-TP, Modbus)

General Specifications					
<b>Uses</b>	Wall or duct-mounted, BAS or controller networkable gas detector for monitoring carbon monoxide (CO), nitrogen dioxide (NO <sub>2</sub> ), hydrogen sulfide (H <sub>2</sub> S), oxygen (O <sub>2</sub> ), methane (CH <sub>4</sub> ), hydrogen (H <sub>2</sub> ) and propane (C <sub>3</sub> H <sub>8</sub> ). <b>(Note: E<sup>3</sup>Point network version replaces Vulcain model VA201T)</b>				
<b>Size</b>	20.56 x 14.90 x 6.72cm (8.09 x 5.87 x 2.65") (H x W x D)				
<b>Power Requirement</b>	24 Vac nominal (17-27Vac), 50/60 Hz, 0.4A; 24 Vdc nominal (20-38Vdc)				
<b>Relay Output</b>	1 DPDT relay, 5A @ 250Vac; 5A @ 30Vdc				
<b>Communications</b>	RS485 Modbus; BACnet MS-TP master				
<b>Operating Environment</b>	Commercial, Indoor, Extreme Temperature Environments				
<b>Operating Temperature</b>	H <sub>2</sub> S, NO <sub>2</sub> , O <sub>2</sub> , CH <sub>4</sub> , H <sub>2</sub> , C <sub>3</sub> H <sub>8</sub> : -40 to 50°C (-40 to 122°F) CO: -20 to 50°C (-4 to 122°F); future available CO version: -40 to 50°C (-40 to 122°F)				
<b>Display</b>	8 character, 2 line backlit LCD				
<b>Visual Indicators</b>	Green LED: Power Amber LED 1: Alarm/Fault Amber LED 2: Alarm/Fault				
<b>Audible Alarm</b>	85 dBA at 3 m (10 ft)				
<b>Accuracy</b>	+/- 3% of full scale @ 25 C				
Gases Detected, Detection Ranges and Alarm Levels					
Gas	Resolution	Range	Alarm A	Alarm B	Alarm C
<b>CO</b> (Carbon monoxide)	1 ppm	0-250 ppm	25 ppm	200 ppm	225 ppm
<b>H<sub>2</sub>S</b> (Hydrogen sulfide)	0.1 ppm	0-50 ppm	10 ppm	15 ppm	20 ppm
<b>NO<sub>2</sub></b> (Nitrogen dioxide)	0.1 ppm	0-16 ppm	0.7 ppm	2 ppm	9 ppm
<b>O<sub>2</sub></b> (Oxygen)	0.1% vol.	0-25% vol.	19.5% vol.	22% vol.	22.5% vol.
<b>H<sub>2</sub></b> (Hydrogen)	0.5% LEL	0-100% LEL	25% LEL	50% LEL	90% LEL
<b>CH<sub>4</sub></b> (Methane)	0.5% LEL	0-100% LEL	25% LEL	50% LEL	90% LEL
<b>C<sub>3</sub>H<sub>8</sub></b> (Propane)	0.5% LEL	0-100% LEL	25% LEL	50% LEL	90% LEL
Enclosure					
	Polycarbonate				
Certification					
	 CSA C22.2 No. 61010-1,  UL 61010-1; FCC part 15; ICES-003 issue 4				

## ORDERING INFORMATION

### Single-Gas, Surface-Mount

*\* Base unit and sensor cartridge sold together    \*\* Base unit only; sensor cartridge sold separately*

Part Number	Description
<b>E3BSC0*</b>	E <sup>3</sup> Point, CO, Surface-mount, BACnet MS-TP, 24Vac/dc, -20 to 50°C (-4 to 122°F)
<b>E3SB**</b>	E <sup>3</sup> Point, Surface-mount, BACnet MS-TP, 24Vac/dc, -40 to 50°C (-40 to 122°F)
<b>E3SMSC0*</b>	E <sup>3</sup> Point, CO, Surface-mount, Modbus, 24Vac/dc, -20 to 50°C (-4 to 122°F)
<b>E3SM**</b>	E <sup>3</sup> Point, Surface-mount, Modbus, 24Vac/dc, -40 to 50°C (-40 to 122°F)

### Duct-Mount

Part Number	Description
<b>E3DBSC0*</b>	E <sup>3</sup> Point, CO, Duct-mount, BACnet MS-TP, 24Vac/dc, -20 to 50°C (-4 to 122°F)
<b>E3DB**</b>	E <sup>3</sup> Point, Duct-mount, BACnet MS-TP, 24Vac/dc, -40 to 50°C (-40 to 122°F)
<b>E3DMSC0*</b>	E <sup>3</sup> Point, CO, Duct-mount, Modbus, 24Vac/dc, -20 to 50°C (-4 to 122°F)
<b>E3DM**</b>	E <sup>3</sup> Point, Duct-mount, Modbus, 24Vac/dc, -40 to 50°C (-40 to 122°F)

### Sensor Cartridges

Part Number	Description
<b>E3SC0</b>	CO Cartridge -20 to 50°C (-4 to 122°F), Carbon Monoxide
<b>E3NO2</b>	NO <sub>2</sub> Cartridge -40 to 50°C (-40 to 122°F), Nitrogen Dioxide
<b>E3H2S</b>	H <sub>2</sub> S Cartridge -40 to 50°C (-40 to 122°F), Hydrogen Sulfide
<b>E3H2</b>	H <sub>2</sub> Cartridge -40 to 50°C (-40 to 122°F), Hydrogen
<b>E3O2</b>	O <sub>2</sub> Cartridge -40 to 50°C (-40 to 122°F), Oxygen
<b>E3M</b>	CH <sub>4</sub> Cartridge -40 to 50°C (-40 to 122°F), Methane
<b>E3P</b>	C <sub>3</sub> H <sub>8</sub> Cartridge -40 to 50°C (-40 to 122°F), Propane

### EXAMPLES OF HOW TO ORDER

To order a network version, surface-mount, BACnet MS-TP, CO detector, -20 to 50°C (-4 to 122°F): Order E3BSC0

To order a network version, surface-mount, Modbus, H<sub>2</sub>S detector, -40 to 50°C (-40 to 122°F): Order E3SM + E3H2S

To order a network version, duct-mount, BACnet MS-TP, NO<sub>2</sub> detector, -40 to 50°C (-40 to 122°F): Order E3DB + E3NO2