



E³Point SPECIFICATIONS

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



General Specifications					
Uses	Wall or duct-mounted, BAS or controller networkable gas detector for monitoring carbon monoxide (CO), nitrogen dioxide (NO ₂), hydrogen sulfide (H ₂ S), oxygen (O ₂), methane (CH ₄), hydrogen (H ₂) and propane (C ₃ H ₈). (Note: E³Point network version replaces Vulcain model VA201T)				
Size	20.56 x 14.90 x 6.72cm (8.09 x 5.87 x 2.65") (H x W x D)				
Power Requirement	24 Vac nominal (17-27Vac), 50/60 Hz, 0.4A; 24 Vdc nominal (20-38Vdc)				
Relay Output	1 DPDT relay, 5A @ 250Vac; 5A @ 30Vdc				
Communications	RS485 Modbus; BACnet MS-TP master				
Operating Environment	Commercial, Indoor, Extreme Temperature Environments				
Operating Temperature	H ₂ S, NO ₂ , O ₂ , CH ₄ , H ₂ , C ₃ H ₈ : -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)				
Display	8 character, 2 line backlit LCD				
Visual Indicators	Green LED: Power Amber LED 1: Alarm/Fault Amber LED 2: Alarm/Fault				
Audible Alarm	85 dBA at 3 m (10 ft)				
Accuracy	+/- 3% of full scale @ 25 C				
Gases Detected, Detection Ranges and Alarm Levels					
Gas	Resolution	Range	Alarm A	Alarm B	Alarm C
CO (Carbon monoxide)	1 ppm	0-250 ppm	25 ppm	200 ppm	225 ppm
H₂S (Hydrogen sulfide)	0.1 ppm	0-50 ppm	10 ppm	15 ppm	20 ppm
NO₂ (Nitrogen dioxide)	0.1 ppm	0-16 ppm	0.7 ppm	2 ppm	9 ppm
O₂ (Oxygen)	0.1% vol.	0-25% vol.	19.5% vol.	22% vol.	22.5% vol.
H₂ (Hydrogen)	0.5% LEL	0-100% LEL	25% LEL	50% LEL	90% LEL
CH₄ (Methane)	0.5% LEL	0-100% LEL	25% LEL	50% LEL	90% LEL
C₃H₈ (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
E3SBSCO*	E ³ Point, CO, Surface-mount, BACnet MS-TP, 24Vac/dc, -20 to 50°C (-4 to 122°F)
E3SB**	E ³ Point, Surface-mount, BACnet MS-TP, 24Vac/dc, -40 to 50°C (-40 to 122°F)
E3SMSCO*	E ³ Point, CO, Surface-mount, Modbus, 24Vac/dc, -20 to 50°C (-4 to 122°F)
E3SM**	E ³ Point, Surface-mount, Modbus, 24Vac/dc, -40 to 50°C (-40 to 122°F)

Duct-Mount

Part Number	Description
E3DBSCO*	E ³ Point, CO, Duct-mount, BACnet MS-TP, 24Vac/dc, -20 to 50°C (-4 to 122°F)
E3DB**	E ³ Point, Duct-mount, BACnet MS-TP, 24Vac/dc, -40 to 50°C (-40 to 122°F)
E3DMSCO*	E ³ Point, CO, Duct-mount, Modbus, 24Vac/dc, -20 to 50°C (-4 to 122°F)
E3DM**	E ³ Point, Duct-mount, Modbus, 24Vac/dc, -40 to 50°C (-40 to 122°F)

Sensor Cartridges

Part Number	Description
E3SCO	CO Cartridge -20 to 50°C (-4 to 122°F), Carbon Monoxide
E3NO2	NO ₂ Cartridge -40 to 50°C (-40 to 122°F), Nitrogen Dioxide
E3H2S	H ₂ S Cartridge -40 to 50°C (-40 to 122°F), Hydrogen Sulfide
E3H2	H ₂ Cartridge -40 to 50°C (-40 to 122°F), Hydrogen
E3O2	O ₂ Cartridge -40 to 50°C (-40 to 122°F), Oxygen
E3M	CH ₄ Cartridge -40 to 50°C (-40 to 122°F), Methane
E3P	C ₃ H ₈ 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 E3SBSCO

To order a network version, surface-mount, Modbus, H₂S detector, -40 to 50°C (-40 to 122°F): Order E3SM + E3H2S

To order a network version, duct-mount, BACnet MS-TP, NO₂ detector, -40 to 50°C (-40 to 122°F): Order E3DB + E3NO2

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