

VESDA SENSEPOINT XCL

The VESDA Sensepoint XCL Micro Bore detector can be paired with your smart device to perform installation, commissioning and maintenance.

When used with the VESDA-E VEA, VESDA Sensepoint XCL provides early warning of the presence of gases for occupant protection and system monitoring whilst at the same time ensuring protection against fire threats.

Through its embedded Bluetooth interface, customers can pair the VESDA Sensepoint XCL detector with their smart device (via Sensepoint App) to perform installation, commissioning and maintenance, allowing faster detector configuration, simplified operation and service.

HOW IT WORKS

VESDA Sensepoint XCL can be added to existing or new VESDA-E VEA installations to actively monitor the presence of gases.

It integrates with other building systems, including fire alarm control panels, PLCs, HVAC and building management systems, and provides real-time situational awareness for intelligent emergency response.

VESDA Sensepoint XCL is capable of remote sampling up to 100m (328ft) providing significant installation and routine maintenance cost savings with easy access to the detector unit for diagnostic information and servicing. Sensor cartridges are easily replaced in the field through simple steps.



FEATURES AND BENEFITS

- Available Sensors:
 - Carbon Monoxide (CO): 300ppm (adjustable 50 – 1000ppm)
 - Combustible (CAT): 0 – 100% LEL (Methane, Hydrogen, Propane, Ethanol, Butane, Octane, etc.)
 - Hydrogen (H₂): 1000ppm
 - Carbon Dioxide (CO₂): 5.0% v/v (adjustable 1.0 – 5.0% v/v)
 - Carbon Dioxide (CO₂): 5000ppm (adjustable 1000 – 5000ppm)
- Factory calibrated detector
 - (CAT: Factory calibrated to CH₄)
- Integral alarm status LEDs
- Wireless Interface: Bluetooth 4.0 (Bluetooth Low Energy)
 - Connect up to 10m away (mobile device dependent). Use compatible smart device running iOS 10 / Android 4.3 or above
- Integrates with PLCs/HVAC/BMS/FACP
- Configurable relays
- 4-20 mA analog outputs or RS 485 Modbus output
- Connects to VESDA-E VEA micro bore tube 6 mm (1/4") OD using flexible tubes (supplied)

APPLICATIONS INCLUDE

- Residential
- Commercial premises
- Hospitals
- Hotels
- Car parks (underground / enclosed)
- Laboratories
- High tech manufacturing
- Universities and schools
- Chemical / Pharmaceutical
- Indoor air quality monitoring
- Battery rooms
- Fuel storage areas
- Confined spaces
- Food & beverage
- Refrigerated systems (leak detection)
- Greenhouses

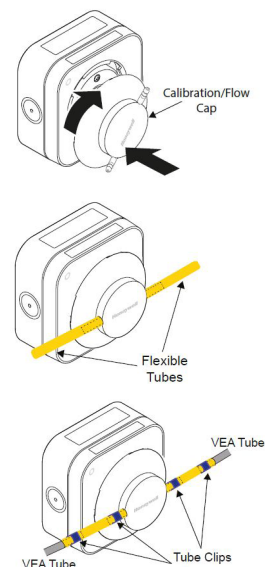
FLEXIBLE OUTPUT OPTIONS

VESDA Sensepoint XCL is available with either a 4-20 mA analog output or Modbus RTU, both versions being equipped with relays. The result is a flexible solution that can be easily incorporated into legacy systems as well as new installations.

INSTALLATION

VESDA Sensepoint XCL is designed to be inserted in-line to the VESDA-E VEA microbore tube network using flexible tubes as shown below:

1. Insert the calibration/flow cap into the detector module and turn clockwise until locked into place.
2. Insert the supplied flexible tubes (cut to 50mm (2 in) length) over the full length of both nozzles of the calibration / flow cap.
3. Insert VEA tubes at least 15mm (0.6 in) into flexible tubes. Secure VEA and flexible tubing parts with the supplied tube clips.



VESDA SENSEPOINT XCL Technical Specification

SPECIFICATION	
Supply Voltage	24 VDC nominal 11 to 32V DC (Analog 4-20 mA) 9 to 32V DC (Modbus) 24V AC 50/60Hz Nominal (20 to 27 VAC)
Maximum Power Consumption	1.2 W (Analog 4-20mA) (toxic), 1.7W (flammable and CO ₂) 0.7 W (Modbus) (toxic), 1.2W (flammable and CO ₂) Relay Version: additional 0.6W total
Maximum Inrush Current (24V DC)	850 mA
Dimensions (WxHxD)	113 x 113 x 59 mm (4.4 x 4.4 x 2.3 in)
Weight	500 g (1.1 lb)
Casing Material	Polycarbonate (Charcoal Colour)
Ingress Protection Rating	IP65, Type 4 (NEMA 250)
Operating Conditions	
Operating Temperature	-20 °C to +50 °C (-4 °F to +122 °F)
Storage Temperature	0 °C to +30 °C (+32 °F to +86 °F)
Humidity:	0 to 99% (non-condensing) CAT versions: 10 to 90% RH. Operating the detector outside this range may result in increased drift and a reduction in detector accuracy.
Atmospheric pressure:	95 to 110 kPa
Wire/Terminal size	Pluggable rising clamp style. 0.5 to 1.5 mm ² , 20 to 16 AWG.
Output	Analog Output: 0 to 22 mA Digital Output: Modbus RTU Relay Output: 2 relays (24 V DC / 240 V AC, 5 A)

VESDA SENSEPOINT XCL ORDERING INFORMATION

VESDA Sensepoint XCL – Micro Bore ASD System gas detectors come complete with the main detector unit (pre- installed with sensor cartridge), two cable glands, calibration/flow cap, flexible tube and tube clips to connect to VEA tubing. Two variants are available based on detector outputs (mA analog, Modbus RTU).

PART NUMBERS	
DESCRIPTION	ORDER CODE
VESDA Sensepoint XCL CO 300ppm 4-20mA Relay for VEA	XCL-VEA-CO-RA
VESDA Sensepoint XCL CO 300ppm Modbus Relay for VEA	XCL-VEA-CO-RM
VESDA Sensepoint XCL CH4 0-100% LEL 4-20mA Relay for VEA	XCL-VEA-CH4-RA
VESDA Sensepoint XCL CH4 0-100% LEL Modbus Relay for VEA	XCL-VEA-CH4-RM
VESDA Sensepoint XCL H2 1000ppm 4-20mA Relay for VEA	XCL-VEA-H2-RA
VESDA Sensepoint XCL H2 1000ppm Modbus Relay for VEA	XCL-VEA-H2-RM
VESDA Sensepoint XCL CO2 5% v/v 4-20mA Relay for VEA	XCL-VEA-CO2VV-RA
VESDA Sensepoint XCL CO2 5% v/v Modbus Relay for VEA	XCL-VEA-CO2VV-RM
VESDA Sensepoint XCL CO2 5000ppm 4-20mA Relay for VEA	XCL-VEA-CO2PP-RA
VESDA Sensepoint XCL CO2 5000ppm Modbus Relay for VEA	XCL-VEA-CO2PP-RM
5 x VESDA Sensepoint XCL CO 300ppm 4-20mA Relay for VEA	XCL-VEA-CO-RA-5
5 x VESDA Sensepoint XCL CH4 0-100% LEL 4-20mA Relay for VEA	XCL-VEA-CH4-RA-5
5 x VESDA Sensepoint XCL H2 1000ppm 4-20mA Relay for VEA	XCL-VEA-H2-RA-5
SPARE PARTS	
VESDA Sensepoint XCL Replacement Filter - Pack of 10	XCL-FILTER
VESDA Sensepoint XCL Calibration/Flow Cap for VEA	XCL-VEA-CAL
VESDA Sensepoint XCL Cable Glands - Pack of 10	XCL-M20-CG
VESDA Sensepoint XCL Tubing Interface for VEA	XCL-VEA-TUB
VESDA Sensepoint XCL Sensor Cover with Gasket	XCL-COVER
VESDA Sensepoint XCL/XRL Replacement Sensor - CO 300ppm	XCL-XRL-SC-CO
VESDA Sensepoint XCL Replacement Sensor - CH4 0-100% LEL	XCL-SC-CH4
VESDA Sensepoint XCL/XRL Replacement Sensor - H2 1000ppm	XCL-XRL-SC-H2
VESDA Sensepoint XCL Replacement Sensor - CO2 5% v/v	XCL-SC-CO2VV
VESDA Sensepoint XCL Replacement Sensor - CO2 5000ppm	XCL-SC-CO2PP
5 x VESDA Sensepoint XCL CO 300ppm 4-20mA Relay for VEA	XCL-XRL-SC-H2
5 x VESDA Sensepoint XCL CH4 0-100% LEL 4-20mA Relay for VEA	XCL-SC-CO2VV
5 x VESDA Sensepoint XCL H2 1000ppm 4-20mA Relay for VEA	XCL-SC-CO2PP

LISTINGS / APPROVALS *	
Electrical safety	Conforms to EN/UL/IEC61010-1 Certified to CSA-C22.2 No. 61010-1-12
CE - EMC	EN 50270
RADIO	RED, FCC, BT SIG
OTHERS	UL2075 (CO and CH ₄), AS 1668.2

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Installation information: In order to ensure full functionality, refer to the installation instructions as supplied.