Xtralis ECO-SC-14 **Sensor Cartridge**



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VESDA ECO™ Detector

Gas Detection for Use with Aspirated Smoke Detection

Xtralis the manufacturer of the market leading VESDA aspirating smoke detection (ASD) technology has developed the industries first multi-hole aspirated gas detector.

When used with the compatible range of ASD products; VESDA ECO provides the industries first combined aspirated smoke and gas detection system.

VESDA ECO provides early warning of toxic, oxygen and flammable gas hazards to protect personnel and property whilst ensuring business continuity.

Applications include:

- · Battery charging rooms
- · Boiler plant rooms
- Commercial kitchens
- Parking garages
- · Utility / service tunnels
- · Refrigerated stores and plant rooms
- Water treatment and sewerage plants
- · Power generation plants
- · Metal processing plants
- · and more.

How It Works

VESDA ECO uses an existing or new aspirating pipe network to actively monitor for gas escapes and build-ups.

Each ECO gas detector can house up to two gas sensors, and additional detectors can be added easily to the pipe network to monitor more gases if required. Pre-calibrated sensor cartridges are easily replaced in the field and make converting to different gas sensors or replacing sensors a simple task.

The VESDA ECO detector is configured using Xtralis VSC configuration software and can be remotely monitored using Xtralis VSM4 monitoring software. Both VSC and VSM can be used to download data from the on-board memory card for data analysis and trending of historical data.

Integration with other building systems, including safety systems, PLCs, HVAC and building management systems, provides real-time situational awareness for intelligent response.

VESDA ECO by Xtralis provides significant installation and routine maintenance cost savings over conventional multi-point gas detection solutions, by reducing the number of detectors required to cover an area and by providing easy access for routine maintenance.

Hazardous area certified variants of VESDA ECO are available. For more information on VESDA ECO Ex, refer to document 19826.

Gas Detection and Environmental Monitoring

Features

- Toxic, Oxygen or Flammable gas detection
- Single or dual gas versions
- Factory calibrated sensor cartridges
- Integral alarm status LEDs
- Integrates with PLCs/HVAC/BMS/ FACP
- · Configurable relays
- 4-20 mA analog outputs
- RS485 Modbus output
- · On-board event logging
- On-board fault diagnostics
- · Integral gas test port
- Remote reset

Compatibility

- VESDA ASD
- ICAM ASD
- FAAST ASD

Approvals

- CE Electrical safety
 - Conforms to ANSI/UL Std 61010-1
 - Certified to CAN/CSA Std C22.2 No. 61010-1
 - EN 61010-1
- EMC
 - FCC 47CFR Part 15B class B
 - ICES 003
 - EN 50270
- Others
 - LPCB, VdS, AFNOR compatible for use with EN54-20 approved ASD
 - LOM approved to UNE 23300 (CO & CO+NO₂)
 - AQISQ CMC Pattern Approval
 - CCCF CFE, GB:15322.1
 - VNIIPO
- SIL Rating
 - SIL 2 as per IEC 61508 (combustible gas and CO₂ versions)
 - SIL 1 as per IEC 61508 (toxic gas and oxygen versions)

Note: Consult with Xtralis if the application requires removal of interferent gases.



VESDA ECO™ Detector

Gas Detection and Environmental Monitoring

VESDA ECO Ordering information

VESDA ECO gas detectors come complete with the main housing, sensor cartridge, data storage card and USB interface cable. Two variants are available based on detector outputs:

Part number structure: ECO-D-B-AA-BB

Single Gas Units

Replace AA with the relevant gas type number below and remove BB:

- 11 Hydrogen (H₂) 0-100% LFL
- 12 Methane (CH₄) 0-100% LFL
- 13 Propane (C₃H₈) 0-100% LFL
- 14 Hydrogen (H₂) 0-2000 ppm
- 15 Gasoline Vapour 0-100% LFL
- 16 Pentane (C₅H₁₂) 0-100% LFL
- 20 Alcohols 0-100% LFL
- 31 Oxygen depletion only (O₂) 0-25% v/v
- 32 Oxygen depletion and enrichment (O₂) 0-25% v/v
- 41 Carbon Monoxide (CO) 0-500 ppm
- 43 Hydrogen Sulphide (H₂S) 0-100 ppm
- 44 Sulphur Dioxide (SO_a) 0-10 ppm
- 45 Nitrogen Dioxide (NO₂) 0-10 ppm
- 49 Carbon Dioxide (CO₂) 0-5% v/v

Dual Gas Units

Select one of the available combinations below. Replacing AA and BB with the preferred combination. Other combinations are available upon request:

- 12 31 Methane and Oxygen
- 12 41 Methane and Carbon Monoxide
- 12 43 Methane and Hydrogen Sulphide
- 13 31 Propane and Oxygen
- 31 41 Oxygen and Carbon Monoxide
- 41 43 Carbon Monoxide and Hydrogen Sulphide
- 41 45 Carbon Monoxide and Nitrogen Dioxide

Example: ECO-D-B-12-41

An ECO detector with relay, analogue and serial outputs for Methane and Carbon Monoxide.

Replacement sensor cartridge part number structure: ECO-SC-AA-BB

Where SC = Sensor Cartridge, AA-BB are 1st and 2nd gas types (see above).

Installation

VESDA ECO is designed to press fit on to the air sampling pipe. To fit VESDA ECO simply remove a 60 mm section of pipe when using 25 mm OD air-sampling pipe work or 4" for 3/4" BSP pipe. Use ECO-FT15 adapter when fitting ECO to 6mm based sampling systems.

VESDA ECO provides total flexibility to install one or more detectors anywhere on the pipe network to enable monitoring of a specific point, zone or total area.



Specifications

Supply Voltage

18-30 VDC

Power Consumption @ 24 VDC

3.6 W (max)

Current Consumption

Typically 60 mA @ 24 V DC for a dual gas (flammable / toxic) quiescent. 85 mA when in alarm.

Dimensions (WHD)

34 mm x 125 mm x 110 mm (1.3" x 4.9" x 4.4")

Weight

250 g (0.6 pounds)

IP/NEMA ratings

IP65 and NEMA 4

Operating Conditions

Temperature typically -20°C to 50°C (-4°F to 122°F) gas dependant.
O₂ - 20°C to 55°C (-4°F to 131°F)
Humidity: 10-95% RH, non-condensing

Pipe Size

External Diameter 25 mm (EU), 3/4" (US/CAN)

Wire/Terminal size

1.5 mm² 16 AWG maximum

Cable Access and Termination

2 x PG9 cable glands, to suit 4.0 to 8.5 mm (0.157" to 0.335") outer cable diameter

Accuracy

+/- 5%

Outputs

4 wire RS 485 Modbus RTU (2 wire data comms + 2 wire power) Four (4) programmable relays 30 VDC 1A One (1) 4-20 mA output per sensor

Onboard Memory Card

Micro SD card 2 GB - 8 GB (50,000+ events)



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