

VESDA SENSEPOINT

301C - GAS CONTROLLER

301R - RELAY MODULE



VESDA Sensepoint 301C Gas Controller

The **VESDA Sensepoint 301C Gas Controller** enables centralised configuration and continuous monitoring of VESDA Sensepoint XCL – Large & Micro Bore (Modbus) gas detectors.

The controller uses an addressable RS-485 communication protocol, (daisy chain wiring) that connects up to 96 VESDA Sensepoint XCL (Modbus version) detectors. It provides 4 programmable relays (alarms, faults) for VESDA Sensepoint XCL gas detector installations requiring additional relay outputs – additional 16 relay outputs can be provided through the (optional) VESDA Sensepoint 301R Relay Module x8.

The controller offers automatic sensor identification and unique zoning capabilities permitting the grouping of multiple VESDA Sensepoint XCL detectors gas readings giving the flexibility to match the needs of different installations.



VESDA Sensepoint 301R Relay Module X8

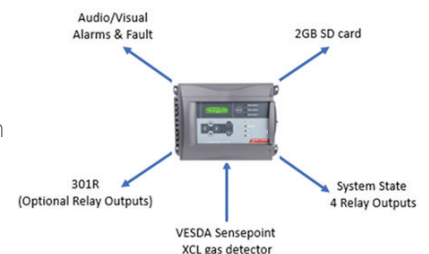
The **VESDA Sensepoint 301R Relay Module X8** connects to the daisy chain network installation (RS-485) and acts as an output to the VESDA Sensepoint 301C Gas Controller.

It provides an extra 8 relays at programmable alarm levels.



How It Works

The VESDA Sensepoint 301C Gas Controller communicates with VESDA Sensepoint XCL gas detectors over a Modbus RS-485 network. Once installed and connected, the controller allows the user to monitor, adjust, or reconfigure an entire network of VESDA Sensepoint XCL detectors.



Features

- Connects up to 96 VESDA Sensepoint XCL detectors
- Large 122 x 32 dot matrix display
- Views gas detectors status and configurations
- Allows gas detectors parameters to be programmed
- Views real time gas reading (%LEL, % v/v, ppm)
- Password protection
- Programmable time delays
- Fully programmable relays (can be set as fail-safe or not)
- Three alarm levels
- Integral alarm buzzer
- Four configurable relays (Alarm and/or Fault)
- Data logging SD card: events, gas concentration levels and system configuration

VESDA SENSEPOINT

TECHNICAL SPECIFICATIONS



Specifications

VESDA Sensepoint 301C Gas Controller

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|-----------------------------------|---|
| Network Capacity | Up to 96 VESDA Sensepoint XCL (Modbus) detectors. Combined 80 VESDA Sensepoint XCL detectors and 16 relay outputs (optional VESDA Sensepoint 301R Relay Module X8) |
| Power Requirements | 17-27 VAC, 24-38 VDC, 500mA |
| Dimensions (WHD) | 280 x 203 x 70 mm (11 x 8 x 2.8 in) |
| Weight | 1.1 kg (2.4 lbs) |
| Outputs | 4 DPDT relays (alarms and/or fault) 5 A, 30 VDC or 250 VAC (resistive load), 65dBA buzzer |
| Alarm Levels | Three fully programmable alarm levels |
| Time Delays | 0, 30 sec, 45 sec, 1-99 minutes before and after alarm |
| Events | Flexible programming: alarms, gas concentrations, faults, real time clock, and time since calibration |
| Display | Large 122 x 32 dot matrix display, visual indicators |
| Operating Conditions | Temperature: -20° to 50°C (-4° to 122°F) Humidity: 0 to 95% RH (non-condensing) Altitude: up to 3000m (9843 ft) |
| Security | Password protection for tamper resistance |
| Zoning | Up to 126 programmable zones |
| Data Logging | 2GB removable SD Card for configuration, readings, and events |
| Communication Line Lengths | Up to 609 m (2,000 ft) per channel T-Tap: 20 m (65 ft), maximum per T-Tap 40 m (130 ft), maximum for all T-Tap combined |
| Casing Material | Polycarbonate ABS (Indoor use only) |
| Warranty | 12 months |

Ratings and Certification

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|--|---|
| VESDA Sensepoint 301C Gas Controller | <ul style="list-style-type: none"> ANSI/UL 61010-1 CAN/CSA C22.2 No. 61010-1. IEC 61010-1:2010 ETL 116662 California Title 24, Part 6, and associated administrative regulations In Part 1 |
| VESDA Sensepoint 301R Relay Module X8 | <ul style="list-style-type: none"> UL STD. 1244 AN/CSA C22.2 No 205 |

Ordering Information

| Part Number | Description |
|---------------------|---------------------------------------|
| XCL-301C-CTR | VESDA Sensepoint 301C Gas Controller |
| XCL-301R-RMD | VESDA Sensepoint 301R Relay Module X8 |

VESDA Sensepoint 301R Relay Module X8

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|-----------------------------|---|
| Relay Outputs | 8 DPDT relays, 5 A, 30 VDC or 250 VAC (resistive load) |
| Power Requirements | 17-27 VAC, 24-38 VDC, 250mA |
| Dimensions (WHD) | 244 x 203 x 57 mm (9.5 x 8 x 2.5 in) |
| Weight | 1.09 kg (2.4 lb) |
| Visual Indicators | Green LED: Power Amber LED: Tx/Rx |
| Operating Conditions | Temperature: 0 to +40 °C (32 to +104 °F) Humidity: 0 to 95% (non-condensing) |
| Casing Material | Polycarbonate |
| Warranty | 12 months |