

## Gas Detection Controller

# VA301CDS

### BENEFITS:

For continuous monitoring and control of toxic gases, combustible gases and oxygen hazards, the VA301CDS is designed for installation and operational simplicity.

- Heavy duty cast aluminum housing
- Continuous, alphanumeric "status" LCD—122x32 dot matrix display
- Easy installation - simply hang on the wall, connect the power and gas transmitters
- Local 65 dB audible alarm
- Field programmable alarm levels for each transmitter
- Simple operation
- Mix, match or change the gases monitored
- Four common relays. 5 amp DPDT relays for Fault, Low, High and High/High alarms
- Visual indicators and audible alarm
- Simultaneously control up to 96 transmitters and relay modules
- Automatic quick self-test and warm-up
- Zoning capability—up to 126 zones, maximum 96 transmitters/zone
- Datalogging capability



## Ordering Information

**VA301CDS** MODBUS Multi-point Digital Controller

**Compatible with all MODBUS Gas Transmitters**

<b>Vulcain Products</b>	<b>BW Products</b>
VA201T	GasPoint
VA301D <sub>2</sub>	GasPoint IR
VA301IRF	
VA301EM	
90DM <sub>3</sub> A	
VASQN8X	

*Note: A digital transmitter is available to interface a 4-20mA transmitter with the VA301CDS Controller*

### Options

VA301AP	Remote annunciator panel
VA201R	Digital field relay module with up to 8 relays

**Protecting your health and your environment.**

# VA301CDS

## Gas Detection Controller

### Affordable and easy to install

The VA301CDS controller minimizes installation costs by using an addressable RS-485 MODBUS communication protocol. Only two pairs of wires are required to connect all the gas transmitters and relay modules to one of the controller's three input channels. With a total of 96 gas transmitters and relay modules linked to one controller, the VA301CDS Detection System represents the most affordable protection for your gas monitoring requirements.

## VA301CDS SPECIFICATIONS

**POWER:** 17-27 VAC or 24-38 VDC, 500mA

### ENVIRONMENTAL

Operating Temperature: -4 to +122°F/-20 to +50°C  
Relative Humidity: 5 to 99% non-condensing  
Enclosure Rating: Nema 4X (in progress)

### PHYSICAL

Dimensions (dxwxh): 3.19 x 12.52 x 9.53 inches/8.1 x 31.8 x 24.2 cm  
Weight: 2.2 lbs/ 1 kg  
Enclosure: Cast aluminum housing—RFI/EMI protected (in progress)  
NEMA 4X (in progress)  
Wire Terminations: Screw type terminal blocks  
Mounting: Wall mounted

**ALARMS:** Three set points—user programmable  
Audible: 65 dB buzzer (typical at 10 ft.)

**OUTPUTS:** 4 DPDT relays; 5 amp @ 250 VAC/30 VDC,  
Standard:  
Alarm Relays:  
One (1) common low gas alarm  
One (1) common high gas alarm  
One (1) common high/high  
One (1) common fault alarm, normally energized, non-latching  
Field selectable: energized/de-energized

### DISPLAY PANEL

LCDs: Alphanumeric status displays  
122 x 32 dot matrix display  
LED Indicators: Alarms: Four (4) - "LOW" (red), "HIGH" (red),  
"HIGH/HIGH" (red), "FAULT" (amber)  
Power: Two (2) "ON" AC icon (green), DC icon (green)  
Communication: Tx (amber); Rx (green)

**CONTROLS:**  
Seven (7) large pushbuttons: Programming

**WARRANTY:** Two (2) years non-prorated  
Certified to UL and CSA standards

*DUE TO ON-GOING RESEARCH AND PRODUCT IMPROVEMENT, SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.*



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- 1 Display
- 2 Alarms/Power LEDs
- 3 Keypad



VA301D<sub>2</sub>

GasPoint

Locally Distributed by: