



Division of BW Technologies

1 800 563-2967



## Stand-Alone Dual Gas Monitor

# VA301M Series

In line with its continuous commitment to meeting customer demand for more cost-effective and reliable custom-tailored gas detection solutions, Vulcain introduces the next generation of stand-alone gas monitors—the VA301M Dual Gas Monitor

Like its predecessor, the VA301M is an advanced microprocessor-based system that features a high quality controller, a high-tech enclosure designed to provide maximum effectiveness and durability, and all the characteristics required to ensure continuous, accurate and fully integrated monitoring of hazardous gases and combustibles.

Incorporating Vulcain's industry-leading sensing technologies, the VA301M is equipped with a built-in electrochemical sensor for CO monitoring and is offered with either a second electrochemical sensor for NO<sub>2</sub> detection, or solid-state sensor for combustibles—both designed for remote installation at distances of up to 100 feet from the controller.

The VA301M series—yet another Vulcain innovation that is redefining the standards of versatility, simplicity and cost-efficiency in reliable gas detection.

- Dual gas detection capability
  - CO and NO<sub>2</sub>
  - CO and CO
  - CO and combustibles
- State-of-the-art sensing technologies
  - One on-board
  - One remote
- Four dedicated relays providing added flexibility
- Independent SPDT fail-safe relays per alarm level
- Two alarm levels (low and high)
- Visual alarm indicators
- Audible alarm (high level)
- Energy saving programmable time delay function
- Calibration status warning
- Quick self-test and warm-up
- Simple installation and operation
- Innovative and attractive enclosure design

## Ordering Information

**VA301MQ2CO**

**VA301MQ2CO-DIS**

Complete CO gas monitor with Q2-type sensor

Complete CO gas monitor with Q2-type sensor and display

### Packages

**-NO<sub>2</sub>**

Remote NO<sub>2</sub> Q1-type sensor

**-C<sub>3</sub>H<sub>8</sub>**

Remote C<sub>3</sub>H<sub>8</sub> Q2-type sensor



**Protecting your health and your environment.**

# VA301M Series Stand-Alone Dual Gas Monitor

## Innovative Architecture

The result of extensive experimentation and the most rigorous testing, the VA301M's highly advanced enclosure is designed to provide maximum effectiveness and durability. As such, all contours and surfaces have been carefully conceived and constructed to allow optimal gas flow and ensure total precision in detection.



### For further information:

USA  
1971 Western Avenue, Unit 1122,  
Albany, NY  
USA 12203  
Tel: 1-800-563-2967  
Fax: 1-888-967-9938

TORONTO  
344 Edgeley Boulevard, Unit 13  
Vaughan, ONT  
L4K 4B7  
Tel: 1-905-660-6544  
Fax: 1-905-660-7362

MONTREAL  
4005 Matte Boulevard, Unit G  
Brossard, QC  
J4Y 2P4  
Tel: 1-800-563-2967  
Fax: 1-888-967-9938

E-mail: sales@vulcaininc.com  
**www.vulcaininc.com**  
VN1091-01-01-00-8.25x11-20050218-5727-5

## VA301M SPECIFICATIONS

### SENSING TECHNOLOGY

Q1-type Sensor: Electrochemical (NO<sub>2</sub>)  
Q2-type Sensor: Electrochemical (Carbon Monoxide), Solid-state (other gases)

### DISPLAY

Visual Indicators: Low alarm: Distinct red LED  
High alarm: Distinct red LED  
Failure Indication : Yellow LED  
Green LED

### Power:

Relay Output Rating: 5A, 100 V<sub>DC</sub> or 250 V<sub>AC</sub> (resistive load)  
Alarm Levels: High and Low  
Audible Alarm: 65 dBA at 3 feet (1 metre)  
Outputs: 2 SPDT relays per zone

### GENERAL SPECIFICATIONS

Size: 8.4 x 5.3 x 2.25 inches  
21.3 cm x 13.4 cm x 5.7 cm  
Weight: 0.86 lbs. (0.350Kg)

Power Requirement: 17-27 V<sub>AC</sub>, 24-38 V<sub>DC</sub>, 550 mA at 24 V<sub>DC</sub>

Certified to UL and CSA standards

Gas Detected	Detection Range		Accuracy	
	Q1-type sensor	Q2-type sensor	Q1-type sensor	Q2-type sensor
CO	-	0-250 ppm	-	5%
NO <sub>2</sub>	0-10 ppm	-	3%	-
C <sub>3</sub> H <sub>8</sub>	-	0-100% LEL	-	5%
Gas Detected	Operating Humidity Range		Operating Temperature Range	
	Q1-type sensor	Q2-type sensor	Q1-type sensor	Q2-type sensor
CO	-	10% to 95% RH, non-condensing	-	-20°C to +50°C (-4°F to 122°F)
NO <sub>2</sub>	15% to 95% RH, continuous	-	-30°C to +50°C (-22°F to 122°F)	-
C <sub>3</sub> H <sub>8</sub>	-	20% to 100% RH, non-condensing**	-	-10°C to +40°C (14°F to 104°F)**

\*\*According to the datasheet's graphic

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



VA301M



Remote Sensor

Locally Distributed by: