

## Stand-Alone Gas Monitor

# VA201M Series



The product of years of research and innovative technological development, Vulcain's VA201M series is an advanced microprocessor-based system featuring a high quality stand-alone controller, a unique high-tech enclosure, and all the necessary characteristics to provide continuous, effective and fully integrated monitoring of toxic and combustible gases.

- Two alarm levels
- 10-step LED display
- 2 high/low DPDT alarm relays
- Audible/visual alarms
- Programmable time delays
- Quick self-test and warm-up
- Calibration status warning
- Innovative and attractive case design
- Simple installation and operation
- Easy field verification
- Remote sensor configuration available
- Cost-effective

## Ordering Information

**VA201MQ1-xxx\***  
**VA201MQ2-xxx\***  
\*gas to be detected

Complete gas monitor with Q1-type sensor  
 Complete gas monitor with Q2-type sensor

**Package:**

**D** Display

**Options:**

**RS** Remote sensor  
**DT** Duct type (N/A for Q2)  
**4X** Nema 4 (N/A for Q2 and CL2)  
**ECLAB** Splash guard (N/A for CL2)  
**TM/Guard** Metal guard  
**LTAM** Low temperature assembly

**Protecting your health and your environment.**

# VA201M Series Stand-Alone Gas Monitor

**Innovative Architecture**  
The result of extensive experimentation and the most rigorous testing, the VA201M'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.



**VA201M**

- 1 Sensor
- 2 10 LED 1-10 (1=10%)
- 3 Unit status
- 4 Multimeter ports
- 5 Calibration port



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## VA201M SPECIFICATIONS

**SENSING TECHNOLOGY**

Q1-type Sensor: Electrochemical (toxic)  
Catalytic combustion (combustibles)  
Diffusion fuel cell (oxygen)  
Solid-state

Q2-type Sensor: Electrochemical (Carbon Monoxide)

**DISPLAY**

Visual Indicators: 10-step LED, \*LCD  
Failure Indication : Yellow LED  
Normal Operation: Green LED

Relay Output Rating: 5A, 30Vdc or 250 Vac (resistive load)  
Alarm Levels: High and Low  
Time Delays: 0, 1, 5 or 10 minutes  
Audible Alarm: 65 dBA at 3 ft. / 1 m  
Outputs: 2 DPDT relays

**GENERAL SPECIFICATIONS**

Size: 8.4 x 5.3 x 2.25 in. / 21.3 x 13.4 x 5.7 cm  
Weight: 13.76 oz. / 0.39 Kg

Power Requirement: 17-27 Vac, 24-38 Vdc, 250 mA

\* Option  
Certified to UL and CSA standards

Gas Detected	Detection Range		Accuracy	
	Q1-type sensor	Q2-type sensor	Q1-type sensor	Q2-type sensor
CO	0-50 ppm 0-100 ppm 0-250 ppm(std) 0-500 ppm	0-250 ppm	3%	5%
NO <sub>2</sub>	0-10 ppm	-	3%	-
H <sub>2</sub>	0-2.5%	0-100% LEL	3%	5%
CL <sub>2</sub>	0-15 ppm	-	3%	-
Combustibles	0-100% LEL	0-100% LEL	3%	5%
Refrigerants	-	0-2000 ppm *N/A R123	-	10%
H <sub>2</sub> S	0-50 ppm	-	3%	-
O <sub>2</sub>	0-25%	-	3%	-
SO <sub>2</sub>	0-10 ppm	-	3%	-
ETO	0-20 ppm	-	3%	-
HCN	0-50 ppm	-	3%	-
HCL	0-50 ppm	-	3%	-
Gas Detected	Operating Humidity Range		Operating Temperature Range	
	Q1-type sensor	Q2-type sensor	Q1-type sensor	Q2-type sensor
CO	0% to 90% RH, non-condensing	10% to 95% RH, non-condensing	-20°C to +50°C (-4°F to 122°F)	-20°C to +50°C (-4°F to 122°F)
NO <sub>2</sub>	15% to 90% RH, continuous	-	-30°C to +50°C (-22°F to 122°F)	-
H <sub>2</sub>	15% to 90% RH, non-condensing	15% to 90% RH, non-condensing**	-20°C to +50°C (-4°F to 122°F)	-10°C to +40°C (14°F to 104°F)**
CL <sub>2</sub>	15% to 90% RH, non-condensing	-	-20°C to +50°C (-4°F to 122°F)	-
Combustibles	-	-	-	-
Refrigerants	-	40% to 100% RH, non-condensing**	-	0°C to +50°C (32°F to 122°F)**
H <sub>2</sub> S	15% to 90% RH, non-condensing	-	-40°C to +50°C (-40°F to 122°F)	-
O <sub>2</sub>	5% to 95% RH, continuous	-	-20°C to +55°C (-4°F to 131°F)	-
SO <sub>2</sub>	15% to 90% RH, non-condensing	-	-20°C to +50°C (-4°F to 122°F)	-
ETO	15% to 90% RH, non-condensing	-	-20°C to +50°C (-4°F to 122°F)	-
HCN	15% to 90% RH, non-condensing	-	-20°C to +50°C (-4°F to 122°F)	-
HCL	15% to 90% RH, non-condensing	-	-20°C to +50°C (-4°F to 122°F)	-

\*\*According to the datasheet's graphic

DUE TO ONGOING RESEARCH AND PRODUCT IMPROVEMENT, SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.