VA301EM

The complete solution for Mechanical Rooms. Monitor up to 20 sensors for Refrigerant, Toxic and Combustible gases.

The VA 301EM-20 acts as a controller for up to 20 remote sensors and suits a variety of gas detection system solutions for Mechanical Rooms.

User Friendly
- Easy to read LCD display
- Auto-diagnostic capabilities

Economical Solution
- Cost-effective answer for installation in Mechanical Rooms locations

Flexible Operation
- Able to operate with up to 20 remote sensors at a time
- Various types of sensors available to simultaneously detect a range of different Refrigerant, Toxic and Combustible gases
- Robust and reliable RS-485 Modbus communication

Output Adaptability
- Three 24 Vdc alarm outputs and four 4-20 mA outputs

Safety Measures
- Four fully programmable relays
- Three alarm levels with built-in visual indicators and audible alarm

Beneficial Options
- Convenient stand-alone or network operation

Particularly configured to meet ASHRAE 15, B-52 and International Mechanical Code requirements, the VA301EM is commonly used to optimize gas detection in mechanical and chiller rooms. A full complement of sensors (including toxic, oxygen, combustible gases and a full line of refrigerant sensors), horns, strobes and remote panels provide added flexibility to suit a variety of gas detection system solutions.

ASHRAE No 15 Mechanical Standard and B-52 Code Compliance

The ASHRAE and B-52 security standards have been established to minimize risk and protect the safety of mechanical room personnel and the environment at large. Available in a special configuration, the VA301EM mechanical room controller has been carefully designed to meet and even exceed these rigorous standards. The VA 301EM can be configured to offer automatic fan, horn and strobe activation in addition to manual fan activation. Latching relay for manual alarm recognition, silence key for manual horn deactivation, built-in 24 Vdc outputs for horn operation, and 2 breakglass switch accessories for manual alarm activation ensure optimal performance.

Find out more

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General Specification

Use	Wall mounted mechanical room controller for use with Honeywell Analytics range of gas sensors. Four (4) onboard relays can be used to activate alarms or deactivate equipment.
Power Requirement	22-27 Vac, 29-38 Vdc, 2A max @ 29Vdc
Size	28 x 20.3 x 7 cm (11.02 x 7.99 x 2.73 in.)
Weight	1.02 kg (2.25 lb.)
Distance Between Controller and Sensor	VA301IRFS refrigerant sensors: Up to 200 ft. / 60.9 m S301D2 toxic/combustible sensors: Up to 500 ft. / 152.4 m

Visual Indicators		
	Normal Operation	Green LED
	Alarm Level 1	Red LED
	Alarm Level 2	Red LED
	Alarm Level 3	Red LED
	Signal Tx	Blinking amber LED
	Failure Indication	Yellow LED

Alarm Levels	3 with high and low setpoints
Outputs	4 DPDT relays (alarms and/or fault), buzzer Three 24 Vdc, 250 mA (per output) Four 4-20 mA outputs Modbus RFS option: 24 Vdc built-in red strobe RFSA option: 24 Vdc built-in red strobe & 105 dBA horn
Relay Output Rating	5 A, 30 Vdc or 250 Vac (resistive load)

Gases Detected	Gases Detected	Detection Range	Operating Temperature	Operating Humidity Range
	VA301IRFS			
	R11, R12, R22, R123, R125, R134A, R227, R245A, R404A, R407C, R410A, R507A, R508B	0-1000 ppm	0 to 40 °C (32 to 104°F)	0-95% non-condensing
	Gases Detected	Detection Range	Operating Temperature	Operating Humidity Range
	S301D2			
	Hydrogen Sulfide (H$_2$S)	0-50 ppm	-40 to 40°C (-40 to 104°F)	0 - 90% RH, non-condensing
	Carbon Monoxide (CO)	0-250 ppm	-20 to 40°C (-4 to 104°F)	0 - 90% RH, non-condensing
	Oxygen (O$_2$)	0-25%	-20 to 40°C (-4 to 104°F)	5 - 95% RH, continuous
	Nitrogen Dioxide (NO$_2$)	0-10 ppm	-20 to 40°C (-4 to 104°F)	15 - 90% RH, non-condensing
	Sulfur Dioxide (SO$_2$)	0-10 ppm	-20 to 40°C (-4 to 104°F)	15 - 90% RH, non-condensing
	Combustibles - Catalytic	0-100% LEL	-40 to 50°C (-40 to 122°F)	0 - 80% RH, non-condensing
	EC-F9-NH3			
	Ammonia NH3	0-100 ppm	-50 to 120 C (ATMOS)	5-100% RH
	Accuracy is +/- 3 % for IFRS and D2 sensors. +/- 5 % for EC-F9 sensor			

Ratings and Certifications	
Certified to	CAN/CSA C22.2 No. 61010-1 (ETL) 116662
Conforms to	ANSI/UL 61010-1

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