



## 301EM-20 SPECIFICATIONS

### Controller

General Specification				
<b>Use</b>	Wall mounted mechanical room controller for use with Honeywell Analytics 301IRFS and S301D2 gas sensors for up to 20 points of detection. Four (4) onboard relays can be used to activate alarms or deactivate equipment.			
<b>Power Requirement</b>	22-27 VAC, 29-38 VDC, 2A max @ 29VDC			
<b>Size</b>	11 (H) x 8 (W) x 2.7 (D) in. (28 x 20.3 x 7 cm)			
<b>Weight</b>	2.25 lbs. (1.02 kg)			
<b>Distance Between Controller and Sensor</b>	301IRFS refrigerant sensors: Up to 200 ft. (60.9 m) S301D2 toxic/combustible sensors: Up to 500 ft. (160 m)			
<b>Visual Indicators</b>	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		
<b>Alarm Levels</b>	3 with high and low setpoints			
<b>Outputs</b>	4 DPDT relays (alarms and/or fault), buzzer			
	Three 24 VDC, 250mA (per output)			
	Four 4-20mA outputs			
	Modbus			
	RFS option: 24 VDC built-in red strobe			
	RFSa option: 24 VDC built-in red strobe & 105 dBA horn			
<b>Relay Output Rating</b>	5 A, 30 VDC or 250 VAC (resistive load)			
<b>Gases Detected</b>	Gases Detected	Detection Range	Operating Temperature	Operating Humidity Range
<b>301IRFS</b>				
	R11, R22, R123, R125, R134A, R404A, R407C, R410A, R507A	0-1,000 ppm	32° to 104°F (0° to 40 °C)	0-95% non-condensing
<b>S301D2</b>				
	Carbon Monoxide (CO)	0-250 ppm	-40° to 100°F (-40° to 40°C)	0-95% non-condensing
	Chlorine (Cl <sub>2</sub> )	0-15 ppm	-40° to 100°F (-40° to 40°C)	0-95% non-condensing
	Nitrogen Dioxide (NO <sub>2</sub> )	0-10 ppm	-40° to 100°F (-40° to 40°C)	0-95% non-condensing
	Hydrogen Sulfide (H <sub>2</sub> S)	0-50 ppm	-40° to 100°F (-40° to 40°C)	0-95% non-condensing
	Sulfur Dioxide (SO <sub>2</sub> )	0-10 ppm	-40° to 100°F (-40° to 40°C)	0-95% non-condensing
	Oxygen (O <sub>2</sub> )	0-25%	-4° to 104°F (-20° to 40°C)	0-95% non-condensing
	Combustibles	0-100% LEL	-40° to 112°F (-40° to 50°C)	0-95% non-condensing
Ratings and Certification				
<b>Alarm Levels</b>	CAN/CSA C22.2 No. 61010-1			
	116662			
<b>Conforms to</b>	ANSI/UL 61010-1			

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