

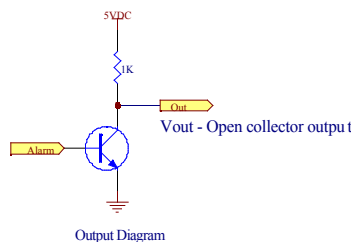
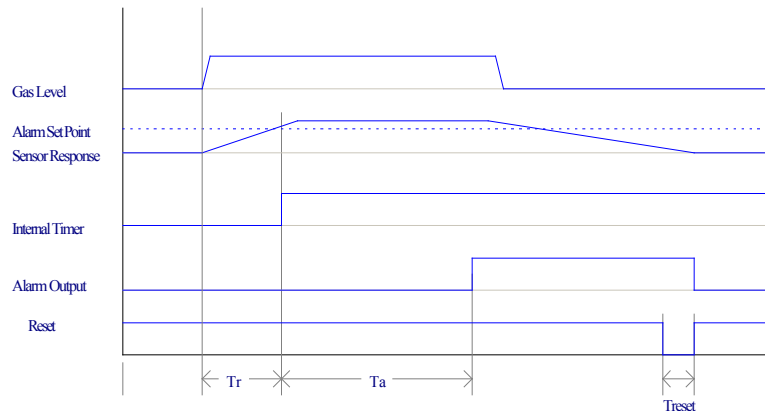
Gas Detector Specifications

Absolute Maximum Ratings		Operating Temperature Range	
Input Voltage	28VDC	Hydrogen (H2)	-40°C to 70°C
Storage Temperature	-40°C to 100°C	Methane (CH4)	-40°C to 70°C
Power Dissipation	0.96 Watt	Propane (C3H8)	-40°C to 70°C
Humidity	95%	CO (CO)	-40°C to 70°C
Altitude	11,000'		

Electrical Characteristics

Specifications are rated at Vin=12VDC at T=25°C

Sym	Parameter	Min	Typ	Max	Units	Conditions
Vin	Voltage Input	9.5	12	24	V	
Iin	Supply Current		80	110	mA	
	Alarm Outputs			3		
Vout	Alarm Output Voltage	4.8	5	5.2	V	Optional pull up resistor required
Isink	Output Sink Current			50	mA	Open collector options
Ro	Output Pull up Resistor	.9	1	1.1	Kohm	Logic option 5V
Ga	Accuracy					
	Hydrogen (H2)		+/- 500		PPM	@ 12.5% LEL 5,000 ppm
	Methane (CH4)		+/- 1,250		PPM	@ 25% LEL 12,500 ppm
	Propane (C3H8)		+/- 525		PPM	@ 25% LEL 5,250 ppm
Gr	Range					
	Hydrogen (H2)		8,000		PPM	
	Methane (CH4)		20,000		PPM	
	Propane (C3H8)		7,000		PPM	
Tr	Response Time*					
	Hydrogen (H2)		1		Min	@ 12.5% LEL 5,000 ppm
	Methane (CH4)		20		Sec	@ 25% LEL 12,500 ppm
	Propane (C3H8)		20		Sec	@ 25% LEL 5,250 ppm
	* Response time decreases as gas concentration increases					
Ta	Alarm Delay Time	0	0	60	Min	Specified by Customer
Thlow	Alarm Heart Beat Low Time		1		Sec	Optional "Sensor OK" pulse on Vout
Thhi	Alarm Heart Beat High Time		15		Sec	
Tres	Reset Low Time	10			mS	



Connector Configuration

Pin	Sym	Description
1	Vin	Voltage input (9.5 – 24 VDC)
2	GND	Sensor ground
3	Alarm 1 (Vout)	Open collector alarm output 1 (Standard)
4*	Alarm 2 (Vout)(Rx)	Open collector alarm output 2 (Optional) / RS232 Rx
5*	Alarm 3 (Vout)(Tx)	Open collector alarm output 3 (Optional) / RS232 Tx
6	Reset	Alarm Reset Input (pull to ground)

* Optional outputs