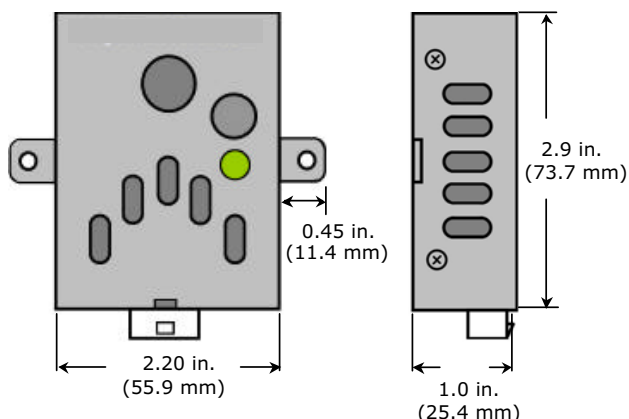


Hydrogen Gas Monitor

Peripheral Specification P/N 300148



Target Gas	Hydrogen (in air)
Sensor Type	Catalytic (with filter)
Detection range	0 – 25,000 ppm
Resolution	~100 ppm
Visual indication	Bi-color LED (red/green)
Options	Relay, beeper, harness
Signal types (1)	0-3VDC, 4-20mA, 'TTL'
Enclosure	Anodized aluminum
Connector	Molex Mini-fit Jr. 6-pin
Weight	2.8 oz. (80g)

Parameter	Min.	Typ.	Max.	Units	Notes
Accuracy	5	3	-	%	Percent range, still air
Linearity	5	3	-	%	Percent range, still air
Air Velocity Error		1	1.5	%	Percent range, 3 m/sec
Oxygen Requirement	5	21	-	%	
HMDS Tolerance	100/50 10/500	-	-	ppm/hrs	
Operating Temperature	-40/-40	-	176/80	Deg. F/C	
Operating Humidity	0	-	99	%RH	Non-condensing
Warm-up Time	-	2	10	Secs	
Response Time (T90)	-	2	3	Secs	
Recovery Time (T10)	-	5	10	Secs	
Input Voltage	5	-	40	VDC	Option I2 – switch mode PSU
Power Consumption	-	950	1100	mW	
Output Signal (Optional)					
0-3VDC:					
Trouble Threshold	-	60	-	mV	3mA load max. 0V during fault state
Step Size	-	12	-	mV	Per 100 ppm H ₂
4-20mA:					
Step size	-	0.08	-	mA	Per 120 ppm H ₂
Load	750	-	10	Ohms	750R: Input voltage > 17VDC
Digital					
Low Level	-	-	0.2	V	5mA load max.
High Level	2.0	-	-	V	
Relay (Optional)					
Switch Voltage	-	-	200	V _{RMS}	Sealed, SPST, NO or NC
Switch/Carry Current	-	-	0.5/1.2	Amps	
Contact Resistance	-	-	0.15	Ohms	
Insulation Resistance	10 ¹⁰	-	-	Ohms	
Beeper (Optional)	72	78	-	dB	At 30cm
Interface Harness (Optional)	10	15	50	cm	24AWG color-coded wire

These specifications are subject to change without notice.