

## Catalytic Hydrogen Gas Sensor Specifications

	Target Gas	Hydrogen (in air)
	Sensor Type	Catalytic (with filter)
	Detection range	0 – 40,000 ppm
	Resolution	200 ppm
	Visual indication	Bi-color LED (red/green)
	Signal types (Choose one)	0-3VDC, Encoded State, 'TTL', Open Drain
	Enclosure	Anodized aluminum
	Connector	Molex Mini-fit Jr. 4-pin
	Weight	50g

All dimensions in mm

Manufactured in Canada

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	-	+80	Deg. 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 (Select one)	3VDC 5-16VDC	2.9 5	3.0 -	3.1 16	VDC VDC	Option I1 – 3VDC regulated Option I2 – switch mode PSU
Power Consumption	-	750	800	mW	At 12VDC supply (I2 option)	
Output Signal (Select one)						
<u>0-3VDC Proportional:</u>						
Trouble Threshold	-	500	-	mV	3mA load max.	
Step Size	-	11.73	-	mV	0V during fault state Per 200 ppm H <sub>2</sub>	
<u>Encoded State:</u>					5mA load max.	
Fault	0	0	0.1	V		
Normal	0.25	0.50	0.75	V		
Warning	1.00	1.25	1.50	V		
Alarm	1.75	2.00	2.25	V		
Fault	2.50	2.75	3.00	V		
<u>Digital (High/Low):</u>					5mA load max.	
Low Level	-	0	0.2	V		
High Level	2.0	2.8	-	V		
<u>Open Drain (On/Off):</u>					R <sub>DS(ON)</sub> =0.3 Ohm	
Drain current	-	-	2	A		
Drain voltage	-	-	60	V		

These specifications are subject to change without notice.