

Catalytic Hydrogen Gas Monitor Specifications

	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	80g
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	6	12/24	55	VDC	Option I3 – switch mode PSU
Power Consumption	-	950	1100	mW	
Output Signal (Optional)					
<u>0-3VDC:</u>					
Trouble Threshold	-	60	-	mV	3mA load max. 0V during fault state
Step Size	-	12	-	mV	Per 100 ppm H ₂
<u>4-20mA:</u>					
Step size	-	0.08	-	mA	Max. input voltage 30VDC
Load	750	-	10	Ohms	Per 120 ppm H ₂ 750R: Input voltage > 17VDC
<u>Digital</u>					
Low Level	-	-	0.2	V	5mA load max.
High Level	2.0	-	-	V	
Relay (Optional)					Sealed, SPST, NO or NC
Switch Voltage	-	-	200	V _{RMS}	
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

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