

3HYT CiTiceL®

Performance Characteristics

Nominal Range	0-1000ppm	
Maximum Overload	2000ppm	
Expected Operating Life	Two years in air	
Output Signal	0.03 ± 0.01 µA/ppm	
Resolution	2ppm	
Temperature Range	-20°C to +50°C	
Pressure Range	Atmospheric ± 10%	
Pressure Coefficient	0.009 ± 0.003 % signal/mBar	
T ₉₀ Response Time	≤50 seconds	
Relative Humidity Range	15 to 90% non-condensing	
Typical Baseline Range (pure air)	0 to -15ppm equivalent	
Maximum Zero Shift (+20°C to +40°C)	-35ppm equivalent	
Long Term Output Drift	<2% signal loss/month	
Recommended Load Resistor	10 Ω	
Bias Voltage	Notrequired	
Repeatability	2% of signal	
Output Linearity	Linear	

N.B. All performance data is based on conditions at 20°C, 50%RH, and 1013mBar

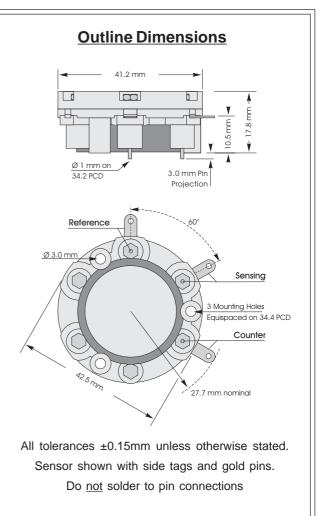
Physical Characteristics

Colour of Ring	Yellow
Weight	22g
Position Sensitivity	None
Storage Life	Six months in CTL container
Recommended	0-20°C
Storage Temperature	
Warranty Period	12 months from date of despatch

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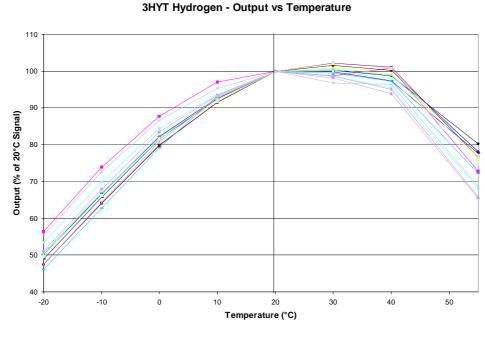
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Hydrogen CiTiceL® Specification





Ordering Information

The 3HYT Hydrogen CiTiceL is available with side tags, gold-plated PCB pins, or both PCB pins and side tags. To ensure the appropriate option is supplied care must be taken to provide the correct code when ordering.

 Type 3HYT: With side tag and PCB pin connections - 3HYT

 With side tag connection - 3HYT(S)
 With gold-plated PCB pin connection - 3HYT(G)

Cross-sensitivity Data

CiTiceLs may exhibit a response to certain gases in a sample other than the target gas. 3HYT CiTiceLs have been tested with a number of commonly cross-interfering gases and the results are given below. The table shows the typical response to be expected from a sensor when exposed to a given test gas concentration (relevant to safety, e.g. TLV levels).

Gas	Conc.	<u>3HYT</u>	Gas	Conc.	<u>3HYT</u>
Carbon monoxide: Hydrogen sulphide Sulphur dioxide: Nitric oxide: Nitrogen dioxide:		≤60ppm <3ppm 0ppm ≈10ppm 0ppm	Chlorine: Hydrogen cyanide: Hydrogen chloride: Ethylene:	1ppm 10ppm 5ppm 100ppm	Oppm ≈3ppm Oppm ≈80ppm

For details of other possible cross-interfering gases contact City Technology.

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Performance characteristics on this data sheet outline the performance of newly supplied sensors. Output signal can drift below the lower limit over time.

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