



3MHYT CiTiceL[®]

Standard mV output CiTiceL[®]

Performance Characteristics

Sensor Type Used	3HYT
Expected Operating Life	Two years in air
Output Signal	1mV/ppm (±5%)
Maximum Range	0-2000ppm
Resolution	2ppm
Maximum Zero Output	0 ± 2mV
Maximum Zero Shift (+20°C to +40°C)	-35ppm equivalent
Temperature Range	-20°C to +50°C
Pressure Range	Atmospheric ± 10%
Pressure Coefficient	0.009% signal/mBar
T₉₀ Response Time	≤30 seconds
Relative Humidity Range	15 to 90% non-condensing
Long Term Output Drift	<2% of full signal/month
Repeatability	2% of signal
Output Linearity	Linear

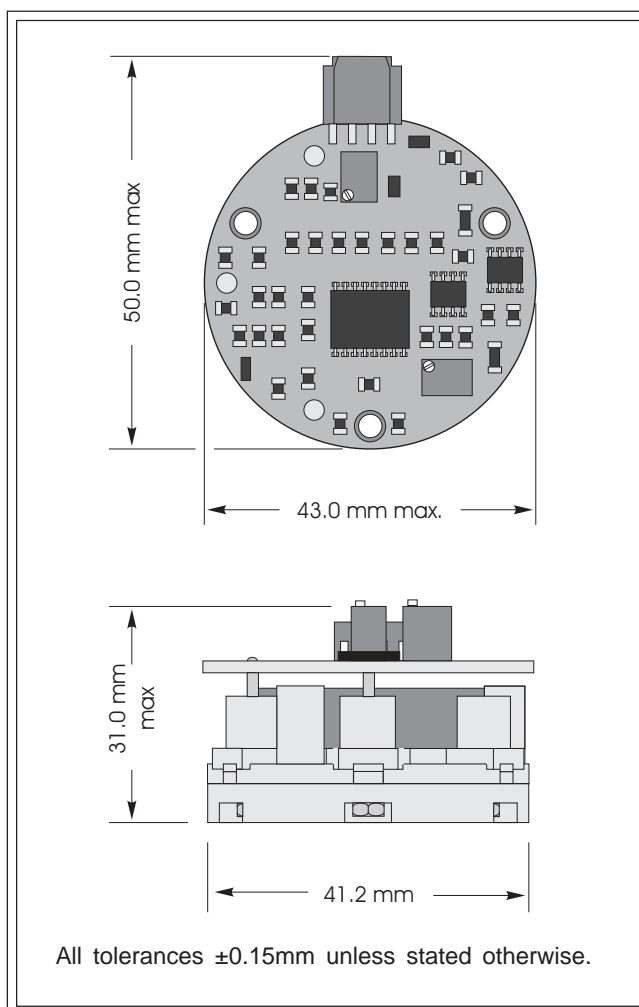
N.B. All performance data is based on conditions at 20°C, 50%RH, and 1013mBar

Electrical Properties

Power Supply Required	7 to 18V d.c. single ended or ± 3.5 to ± 9V d.c. dual
Power Consumption	250µA @ 9V d.c.
Calibration	Via built-in span and zero potentiometers

Physical Characteristics

Weight	38g (with connector)
Position Sensitivity	None
Storage Life	Six months in CTL container
Recommended Storage Temperature	0-20°C
Warranty Period	12 months from date of despatch



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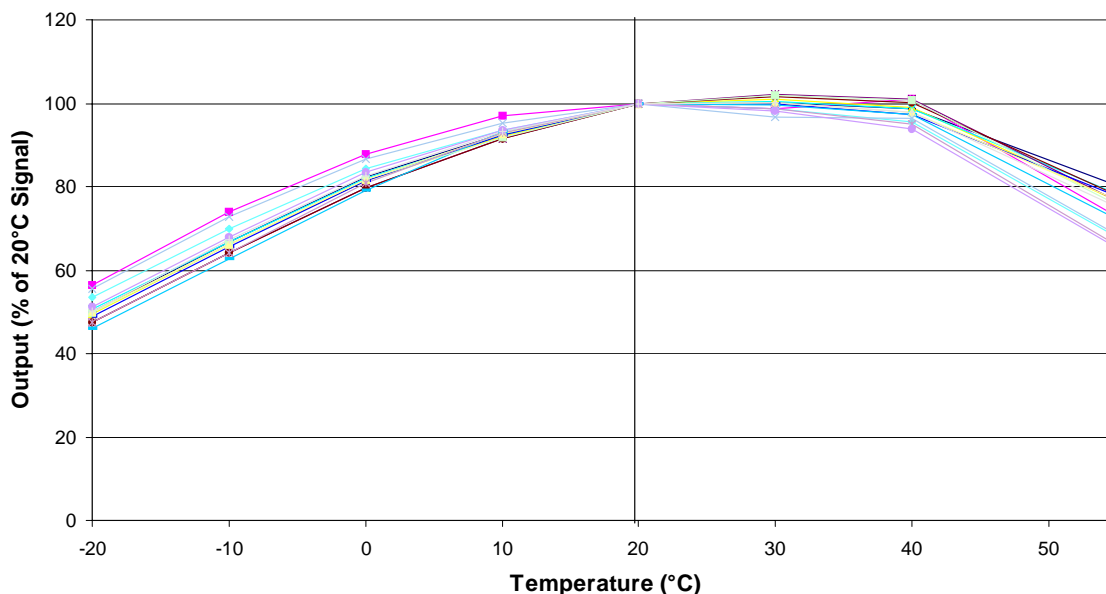
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10th February 2003



3HYT Hydrogen - Output vs Temperature



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.	3HYT	Gas	Conc.	3HYT
Carbon monoxide:	300ppm	≤60ppm	Chlorine:	1ppm	0ppm
Hydrogen sulphide:	15ppm	<3ppm	Hydrogen cyanide:	10ppm	≈3ppm
Sulphur dioxide:	5ppm	0ppm	Hydrogen chloride:	5ppm	0ppm
Nitric oxide:	35ppm	≈10ppm	Ethylene:	100ppm	≈80ppm
Nitrogen dioxide:	5ppm	0ppm			

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

Ordering Information

Standard mV H₂ CiTiceL MET60-014

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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.