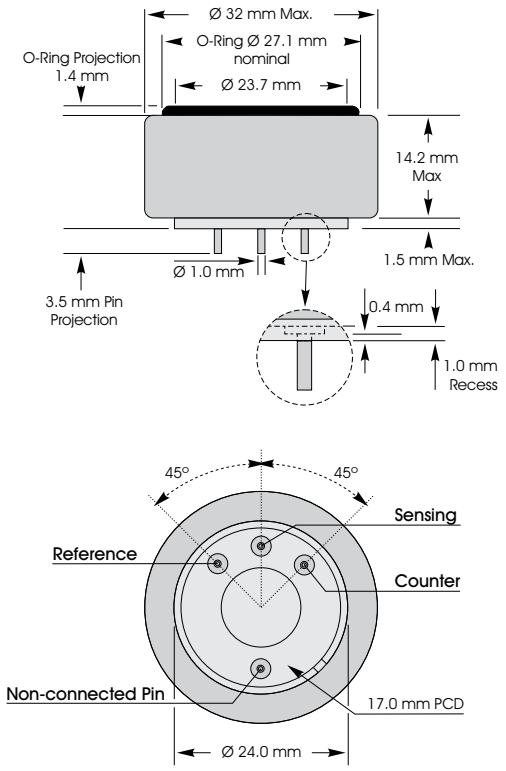
Hydrogen Sulphide CiTiceL® Specification

7H CiTiceL®

Performance Characteristics

Nominal Range	0-200ppm
Maximum Overload	1000ppm
Expected Operating Life	Two years in air
Output Signal	0.37 ± 0.07 µA/ppm
Resolution	0.25ppm
Temperature Range	-40°C to +50°C
Pressure Range	Atmospheric ± 10%
Pressure Coefficient	0.008 ± 0.002 %signal/mBar
T_{90} Response Time	≤35 seconds
Relative Humidity Range	15 to 90% non-condensing
Typical Baseline Range (pure air)	-0.6 to +1.9ppm equivalent
Maximum Zero Shift (+20°C to +40°C)	2ppm equivalent
Long Term Output Drift	<2% signal loss/month
Recommended Load Resistor	10Ω
Bias Voltage	Not required (See Application Note #7)
Repeatability	1% of signal
Output Linearity	Linear

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



All tolerances ±0.15mm unless otherwise stated.
Do not solder to pin connections

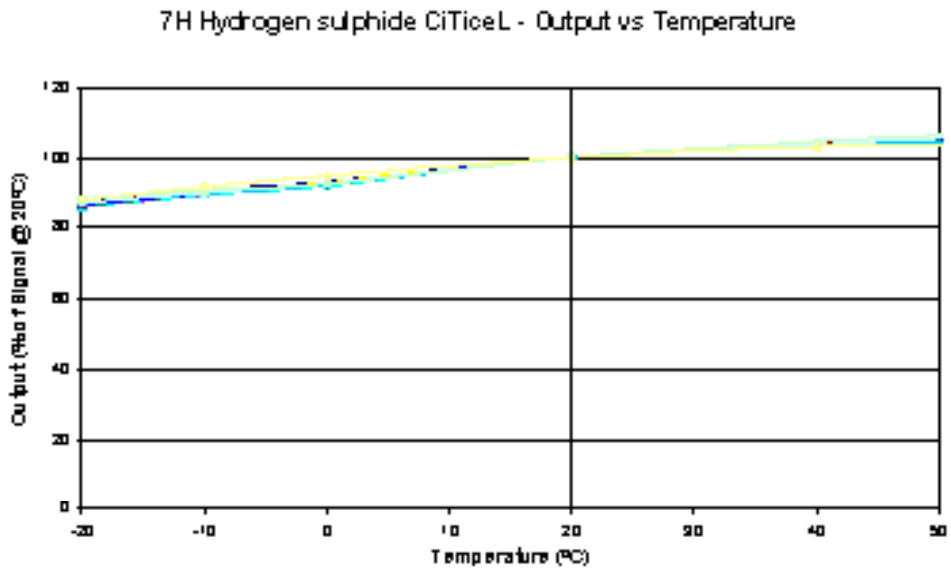
IMPORTANT NOTE: Connection should be made via PCB sockets only. Soldering to the pins will render your warranty void.

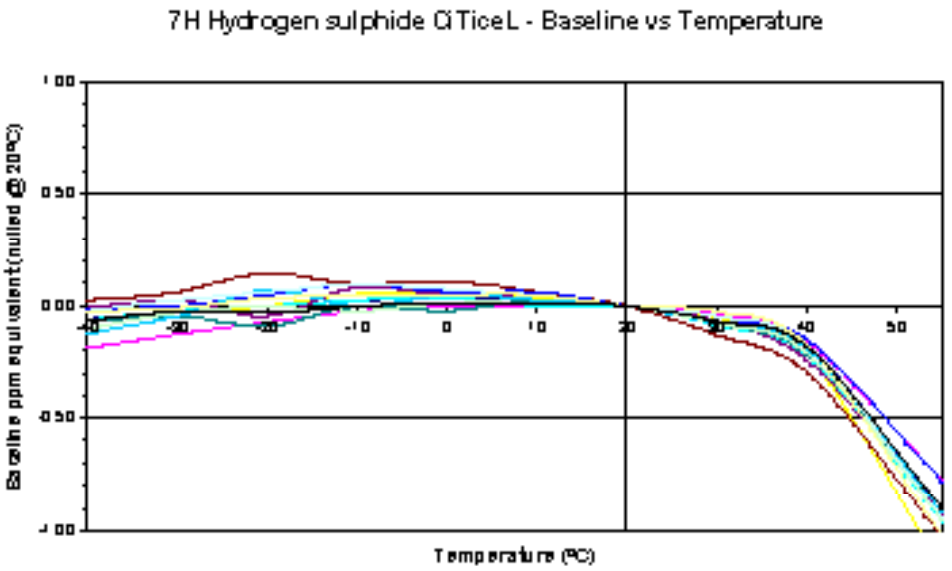
Physical Characteristics

Colour of Top	Dark Blue
Weight	12g
Position Sensitivity	None
Storage Life	Six months in CTL container
Recommended Storage Temperature	0-20°C
Warranty Period	24 months from date of despatch (This amounts to a variation of condition 6 of our standard terms and conditions which otherwise apply)

iSweek www.isweek.com
Add: 16/F, Bldg. #3, Zhongke Mansion, No.1 Hi-Tech S. Rd, Hi-Tech Park South, Shenzhen, Guangdong, 518067 P.R.China
Tel: + 86-755-83289069 Fax: + 86-755-83289052 E-mail: sales@isweek.com

Hydrogen Sulphide CiTiceL® Specification





Cross-sensitivity Data

CiTiceLs may exhibit a response to certain gases in a sample other than the target gas. 7H 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.	7H	Gas	Conc.	7H
Carbon monoxide:	300ppm	≤6ppm	**Hydrogen:**	10,000ppm	<15ppm
Sulphur dioxide:	5ppm	<1ppm	**Hydrogen cyanide:**	10ppm	-1.4ppm ≤ x$ ≤ -0.5ppm
Nitric oxide:	35ppm	0ppm	**Hydrogen chloride:**	5ppm	0ppm
Nitrogen dioxide:	5ppm	≈-1ppm	**Chlorine:**	1ppm	-0.05ppm ≤ x$ ≤ +0.04ppm
Ethylene:	100ppm	0ppm			

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

iSweek www.isweek.com
Add: 16/F, Bldg. #3, Zhongke Mansion, No.1 Hi-Tech S. Rd, Hi-Tech Park South, Shenzhen, Guangdong, 518067 P.R.China
Tel: + 86-755-83289069 Fax: + 86-755-83289052 E-mail: sales@isweek.com