

4CF CiTiceL®

(filter to remove H₂S and SO₂)

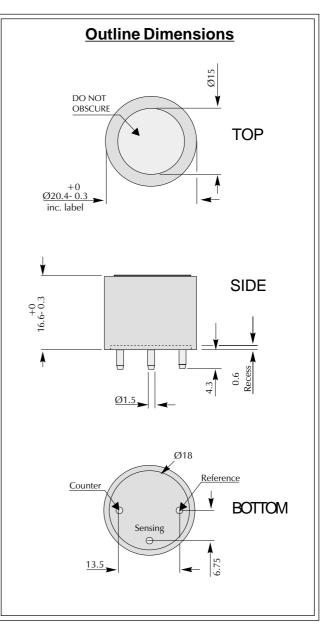
Performance Characteristics				
Nominal Range	0-500ppm			
Maximum Overload	1500ppm			
Expected Operating Life	Two years in air			
Output Signal	0.07 ± 0.015 µA/ppm			
Inboard Filter	To remove TLV levels of interfering gases			
Resolution	1ppm			
Temperature Range	-20°C to +50°C			
Pressure Range	Atmospheric ± 10%			
T ₉₀ Response Time	≤25 seconds			
Relative Humidity Range	15 to 90% non-condensing			
Typical Baseline Range (pure air)	-1 to +3ppm equivalent			
Maximum Zero Shift (+20°C to +40°C)	9ppm equivalent			
Long Term Output Drift	<5% signal loss/year			
Recommended Load Resistor	10Ω			
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

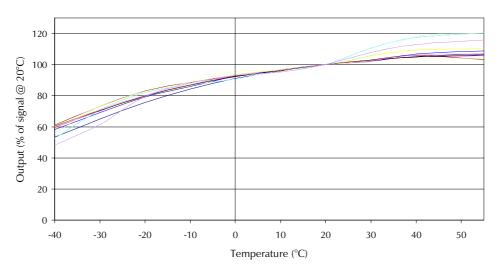
Weight	5g(approx.)
Position Sensitivity	None
Storage Life	Six months in CTL container
Recommended Storage Temperature	0-20°C
Warranty Period	24 months from date of despatch (This amounts to a variation of condition 6 of our standard terms and conditions which otherwise apply)

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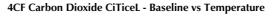


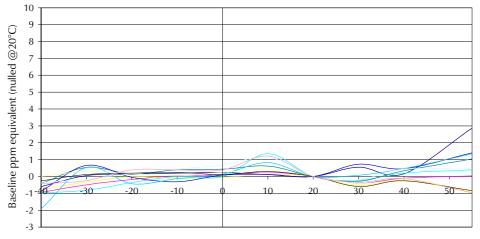
IMPORTANT NOTE: Connection should be made via PCB sockets only. Soldering to the pins will seriously damage your sensor.





4CF Carbon Monoxide CiTiceL - Output vs Temperature





Temperature (°C)

Cross-sensitivity Data

CiTiceLs may exhibit a response to certain gases in a sample other than the target gas. 4CF 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>4CF</u>	Gas	Conc.	4CF
Hydrogen sulphide: Sulphur dioxide:	15ppm 5ppm	<0.5ppm 0ppm	Chlorine: Hydrogen :	1ppm 100ppm	0ppm <40ppm
Nitric oxide:	35ppm	<3ppm	Ethylene:	100ppm	<50ppm
Nitrogen dioxide:	5ppm	-1ppm≤x\$≤0ppm	Ethanol:	200ppm	0ppm

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.