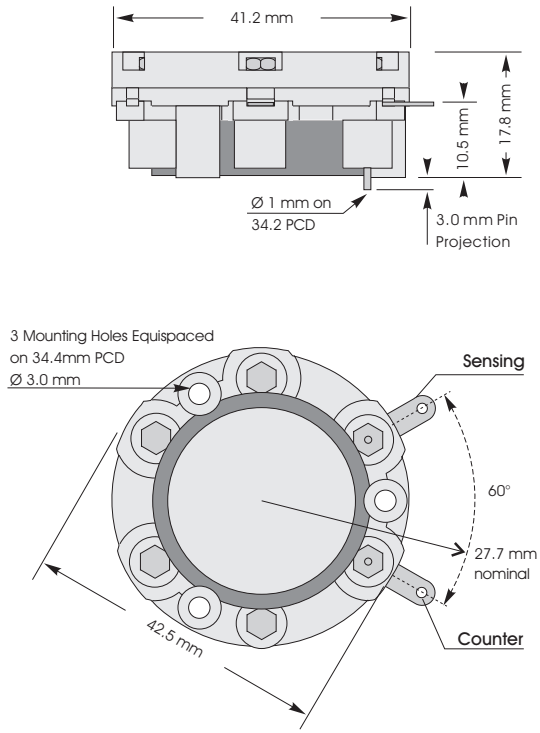
2E/F CiTiceL®

Performance Characteristics

Nominal Range	0-200ppm
Maximum Overload	500ppm
Expected Operating Life	Two years in air
Output Signal	0.10 ± 0.02 µA/ppm
Inboard Filter	To remove SO_2 and H_2S
Resolution	1ppm
Temperature Range	-20°C to +50°C
Pressure Range	Atmospheric ± 10%
Pressure Coefficient	No data
T_{90} Response Time	≤40 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	10 Ω
Bias Voltage	Not required
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

Physical Characteristics

Weight	22g
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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Cross-sensitivity Data

CiTiceLs may exhibit a response to certain gases in a sample other than the target gas. 2E/F 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.	2E/F	Gas	Conc.	2E/F
Hydrogen sulphide:	15ppm	<1ppm	**Hydrogen:**	100ppm	<20ppm
Sulphur dioxide:	5ppm	0ppm	**Hydrogen cyanide:**	10ppm	0ppm
Nitric oxide:	35ppm	<±2ppm	**Hydrogen chloride:**	5ppm	0ppm
Nitrogen dioxide:	500ppm	5<x$<25ppm	**Ethylene:**	100ppm	<50ppm
Chlorine:	1ppm	0ppm			

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

Ordering Information

The 2E/F Carbon Monoxide CiTiceL is supplied with side tags and tin-plated PCB pins.

Type 2E/F:- With side tag and PCB pin connections - **2E/F**

SAFETY NOTE
This sensor is designed to be used in safety critical applications. To ensure that the sensor and/or instrument in which it is used, are operating properly, it is a requirement that the function of the device is confirmed by exposure to target gas (bump check) before each use of the sensor and/or instrument. Failure to carry out such tests may jeopardize the safety of people and property.

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