

Nitric Oxide CiTiceL® Specification

5NF CiTiceL®

Performance Characteristics

Nominal Range | 0-1000ppm Maximum Overload | 5000ppm

Replaceable Filter To remove effect of SO₂

Expected Operating Life Three years in air

Output Signal $0.10 \pm 0.02 \,\mu\text{A/ppm}$

Resolution 1 ppm

Operating Temperature Range *see Note1 -20°C to +40°C

Pressure Range | Atmospheric ± 10% Pressure Coefficient | 0.01% signal/mBar

 T_{90} Response Time ≤ 30 seconds

Relative Humidity Range 15 to 90% non-condensing **Typical Baseline Range** 0 to +12ppm equivalent

(pure air)

Maximum Zero Shift | 3

aximum Zero Shift | 30ppm equivalent | (+20°C to +40°C) |

Long Term Output Drift | <2% signal loss/month

Recommended Load 10 Ω

Resistor

Bias Voltage +300mV
Repeatability 2% of signal
Output Linearity Linear

Colour Coding | Orange

Note1: While not being used to measure NO the 5NF can withstand temperatures of up to $+50^{\circ}$ C

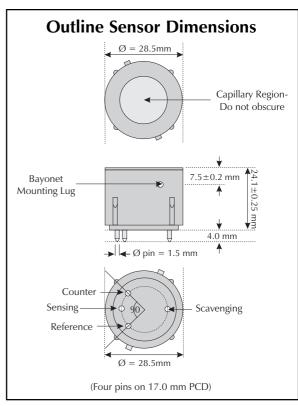
NB. All performance data is based on conditions at 20°C, 50%RH, and 1013mBar

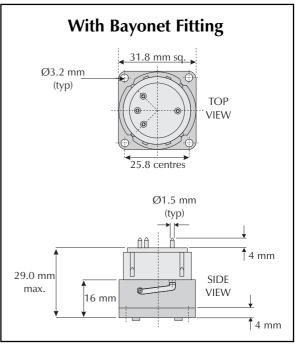
Physical Characteristics

Weight Position Sensitivity None Storage Life Recommended Storage Temperature 13 g None 0-20°C

Warranty Period 12 months from date of despatch

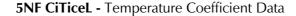
Doc. Ref.: 5NF.p65 Issue 3.8 Nov 17, 1999

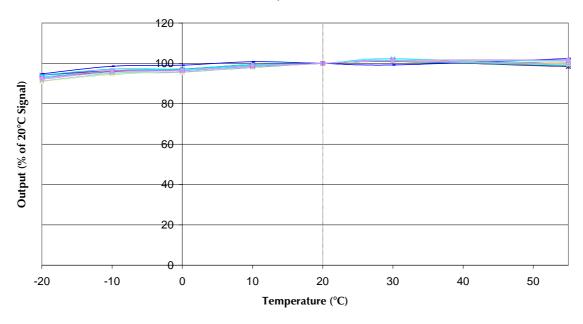




All tolerances ± 0.15 mm unless otherwise stated







Cross-sensitivity Data

CiTiceLs may exhibit a response to certain gases in a sample other than the target gas. The table below shows the typical response of 5NF sensors to a number of common cross-interfering gases. The figures are expressed as a percentage of the primary sensitivity (i.e. nitric oxide = 100%).

<u>Gas</u>	Response	Gas	<u>Response</u>
Carbon monoxide:	0	Hydrogen:	0
Hydrogen sulphide: Sulphur dioxide:	0	Hydrogen chloride: Ethylene:	<5 0
Nitrogen dioxide:	<10	** For details of other possible cross-interfering gases contact City Technology.**	