4NT CiTiceL®

Performance Characteristics

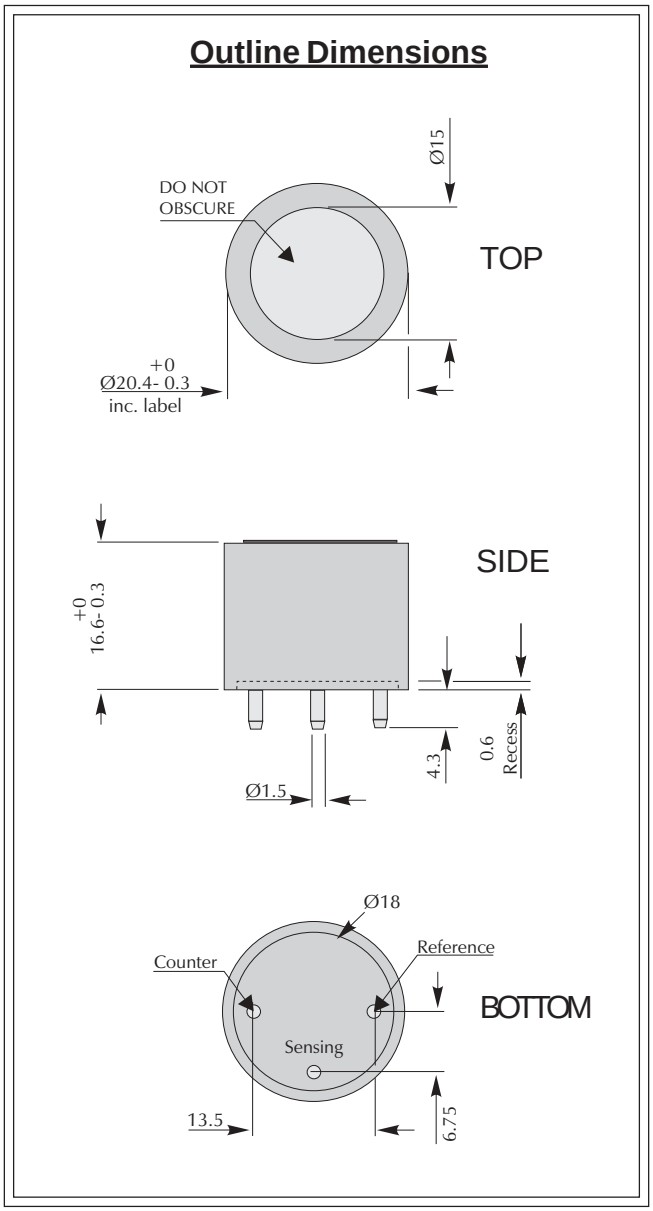
Nominal Range	0-250ppm
Maximum Overload	1000ppm
Expected Operating Life	Two years in air
Output Signal	0.4 ± 0.08 µA/ppm
Resolution	0.5ppm
Temperature Range	-20°C to +50°C
Pressure Range	Atmospheric ± 10%
T_{90} Response Time	<40 seconds
Relative Humidity Range	15 to 90% non-condensing
Typical Baseline Range (pure air)	0 to +3ppm
Maximum Zero Shift (+20°C to +40°C)	<4ppm
Long Term Output Drift	<2% signal loss/month
Recommended Load Resistor	10Ω
Bias Voltage	+300mV
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	12 months from date of despatch

Outline Dimensions



All dimensions in mm
All tolerances ±0.15mm unless othewise stated

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

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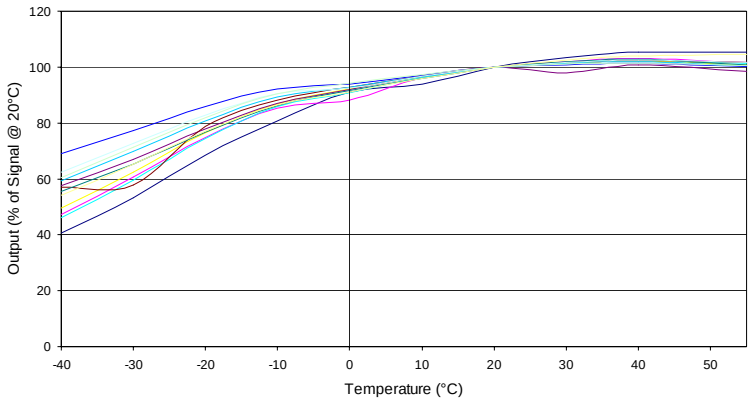
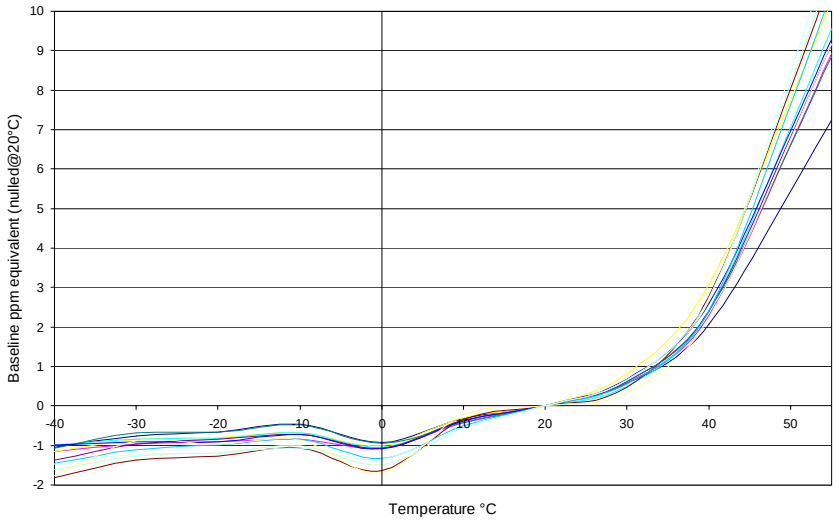
4NT Nitric Oxide CiTiceL - Output vs Temperature



4NT Nitric Oxide CiTiceL - Baseline vs Temperature



Cross-sensitivity Data

CiTiceLs may exhibit a response to certain gases in a sample other than the target gas. 4NT 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.	4NT	Gas	Conc.	4NT
Carbon monoxide:	300ppm	0ppm	**Nitrogen dioxide**	5ppm	<1.5ppm
Sulphur dioxide:	5ppm	0ppm	**Hydrogen sulphide**	15ppm	~1.5ppm

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

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