



NX1 CiTiceL[®] (Rev 4)

For BAR 97 grade markets

Performance Characteristics

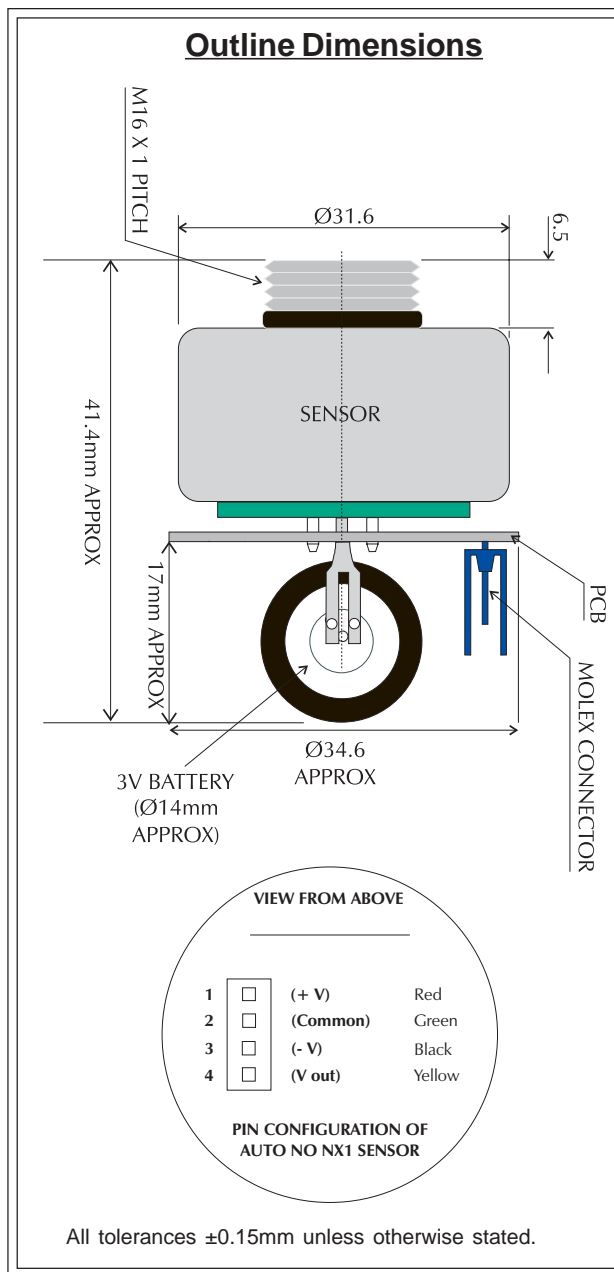
Nominal Range	0-5000ppm
Inboard Filter	To remove effect of SO ₂ in gas stream
Output Signal	0.05 ± 0.01 µA/ppm
Resolution	1ppm
Temperature Range	-20°C to +50°C
Pressure Range	800 to 1100 mBar
Pressure Coefficient	0.02% signal/mBar
T₉₅ Response Time*	≤5.5 seconds
T₉₀ Response Time*	≤4.5 seconds
Relative Humidity Range	15 to 90% non-condensing
Typical Baseline Range (pure air)	0 to +12ppm equivalent
Maximum Zero Shift (0°C to +40°C)	<30ppm equivalent
Long Term Output Drift	Typically <5% signal loss/year
Recommended Load Resistor	10 Ω
Bias Voltage	+300mV
Repeatability	2% of signal
Output Linearity	Linear

* Prolonged exposure to high or low humidity may lead to an increased Response Time

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

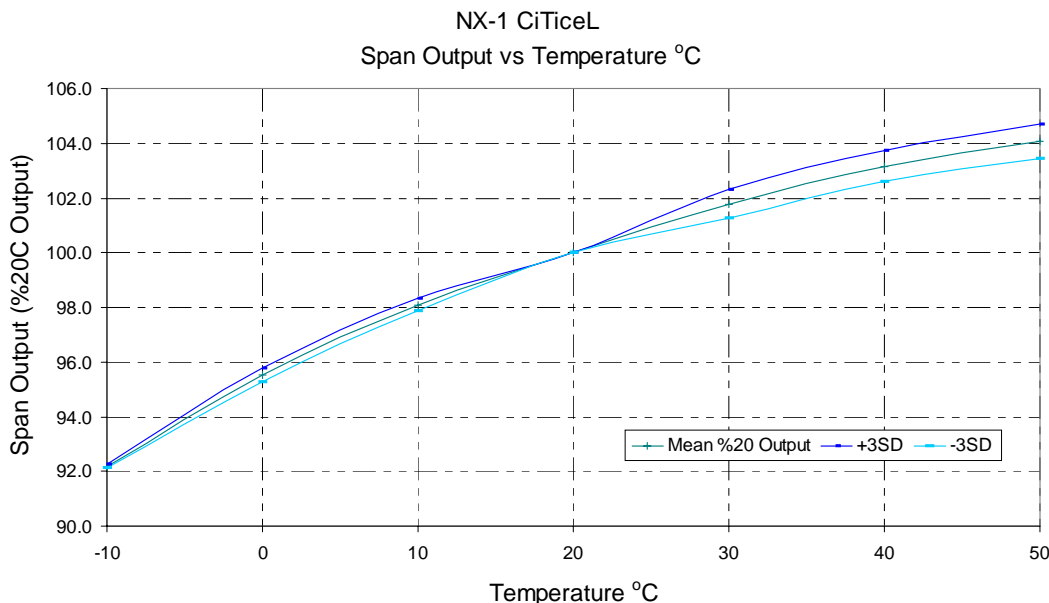
Physical Characteristics

Weight	32g
Position Sensitivity	None
Storage Life	Six months in CTL container
Recommended Storage Temperature	0°C to 25°C in CTL packaging
Warranty Period	15 months from date of despatch



Automotive NX1 CiTiceL [®] Part Details	
MOLEX HEADER (0.100"/2.54mm)	Molex Part Number 22-29-2041
CRIMP TERMINAL HOUSING (MATING PART)	Molex Part Number 22-01-2045

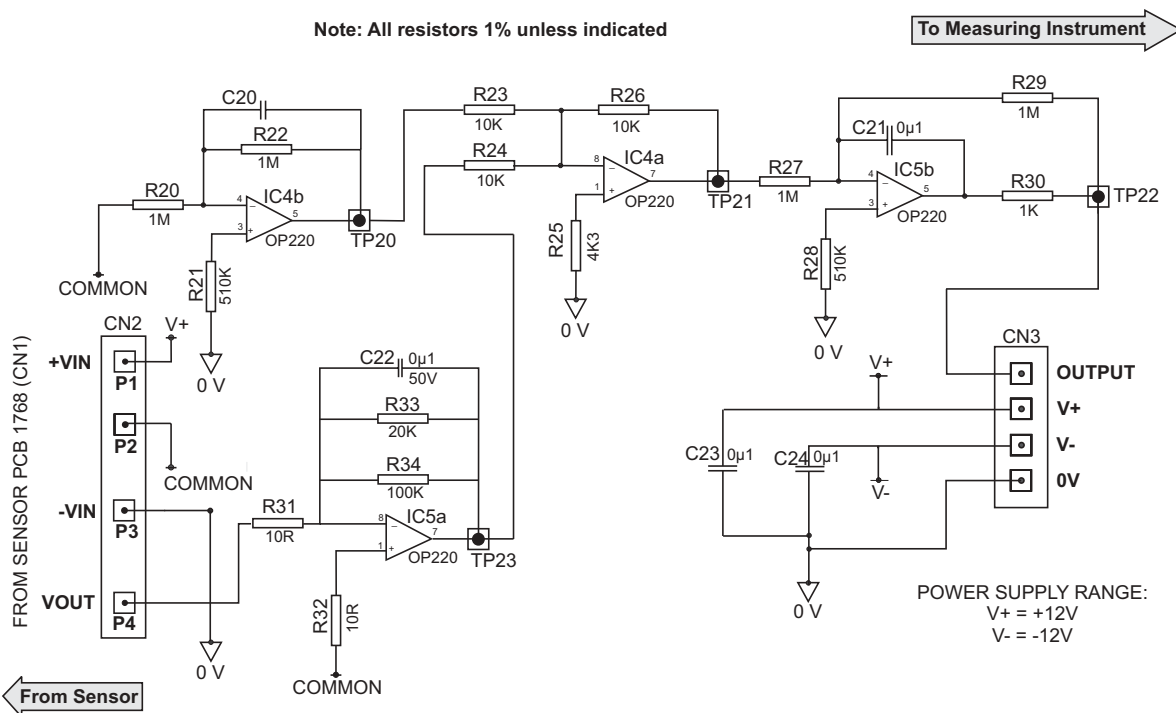
Nitric Oxide CiTiceL[®] Specification



Recommended External Circuit for Sensor

This diagram shows the recommended operating circuit for the NX1 CiTiceL, designed to give an output of 0-5V over the range 0-5000ppm, where the sensitivity is 60nA/ppm.

Note: All resistors 1% unless indicated



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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.