



3ND

Product code: 3ND

Manufacturer: City Technology

MEASUREMENT

Operating Principle: 3-electrode electrochemical

Nominal Range: 0-100 ppm NO₂

Maximum Overload: 1000 ppm NO₂

Filter: None

Sensitivity: $0.37 \pm 0.07 \mu\text{A/ppm}$

Response Time (T₉₀): <35 Seconds

Baseline Offset (clean air): 0 to 2 ppm equivalent

Zero Shift (+20°C to +40°C): -1 ppm equivalent

Resolution: 0.5 ppm (electronics dependant)

Repeatability: 2% of signal

Output Linearity: Linear

ELECTRICAL

Recommended Load Resistor: 33 Ω

Bias Voltage: Not Required

MECHANICAL

Weight: 22 g

Orientation: Any

ENVIRONMENTAL

Operating Temperature Range: -20°C to +50°C

Recommended Storage Temp: 0°C to 20°C

Operating Pressure Range: Atmospheric $\pm 10\%$

Pressure Coefficient: 0.037% signal / mbar

Operating Humidity Range: 15 - 90% RH non-condensing

LIFETIME

Long Term Sensitivity Drift: <2% signal loss / month

Expected Operating Life: Two years in air

Storage Life: 6 months in CTL container



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Life expectancy	> 24 months
Measurement range	0-100 ppm
Target Gas	Nitrogen dioxide
Response Time	< 35 seconds (T90)
Output	370 ± 70 nA/ppm