



5ND

Product code: 5ND

Manufacturer: City Technology

MEASUREMENT

Operating Principle: 3-electrode electrochemical

Nominal Range: 0 to 200 ppm NO₂

Maximum Overload: 1000 ppm NO

Filter: None

Sensitivity: 0.37 ± 0.07 mA/ppm

Response Time (T₉₀): < 60 seconds

Baseline Offset (clean air): ± 0.5 ppm equivalent

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

equivalent

Repeatability: 2% of signal

Linearity: Linear

ELECTRICAL

Resolution: 0.5 ppm

Recommended Load Resistor: 33 Ω

Bias Voltage: Not Required

MECHANICAL

Weight: 10 g nominal

Orientation Sensitivity: None

ENVIRONMENTAL

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

Pressure Coefficient: 0.037 %signal/mBar

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

Operating Humidity Range: 15 - 90% rH

LIFETIME

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

Expected Operating Life: Two years in air

Recommended Storage Temp: 0°C to +20°C in sealed container



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|--------------------------|--------------------|
| Life expectancy | > 24 months |
| Measurement range | 0-200 ppm |
| Target Gas | Nitrogen dioxide |
| Response Time | < 60 seconds (T90) |
| Output | 370 ± 70 nA/ppm |