



## 5ND

**Product code:** 5ND

**Manufacturer:** City Technology

### MEASUREMENT

**Operating Principle:** 3-electrode electrochemical

**Nominal Range:** 0 to 200 ppm NO<sub>2</sub>

**Maximum Overload:** 1000 ppm NO

**Filter:** None

**Sensitivity:**  $0.37 \pm 0.07$  mA/ppm

**Response Time (T<sub>90</sub>):** < 60 seconds

**Baseline Offset (clean air):**  $\pm 0.5$  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  $\Omega$

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