



## 3ND

**Product code:** 3ND

**Manufacturer:** City Technology

### MEASUREMENT

**Operating Principle:** 3-electrode electrochemical

**Nominal Range:** 0-100 ppm NO<sub>2</sub>

**Maximum Overload:** 1000 ppm NO<sub>2</sub>

**Filter:** None

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

**Response Time (T<sub>90</sub>):** <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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<b>Life expectancy</b>	> 24 months
<b>Measurement range</b>	0-100 ppm
<b>Target Gas</b>	Nitrogen dioxide
<b>Response Time</b>	< 35 seconds (T90)
<b>Output</b>	370 ± 70 nA/ppm