



## 5SF

**Product code:** 5SF

**Manufacturer:** City Technology

### MEASUREMENT

**Operating Principle:** 3-electrode electrochemical

**Measurement Range:** 0-2000 ppm SO<sub>2</sub>

**Maximum Overload:** 5000 ppm SO<sub>2</sub>

**Filter:** None

**Sensitivity:** 0.10 ± 0.02 µA/ppm

**Resolution:** 1 ppm

**Response Time (T90):** <30 seconds

**Baseline Offset (clean air):** 0 - 2 ppm equivalent

**Maximum Zero Shift (+20°C to +40°C):** 5 ppm equivalent

**Repeatability:** 1% of signal

**Linearity:** Linear

### ELECTRICAL

**Recommended Load Resistor:** 10 Ω

**Bias Voltage:** Not Required

### MECHANICAL

**Weight:** 10 g nominal

**Orientation:** Any

### ENVIRONMENTAL

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

**Recommended Storage Temp:** 0°C to 20°C

**Operating Pressure Range:** Atmospheric ± 10%

**Pressure Coefficient:** 0.004% signal / mbar

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

### LIFETIME

**Long Term Sensitivity Drift:** < 2% signal loss/year

**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>	0-2000 ppm
<b>Target Gas</b>	Sulfur Dioxide
<b>Response Time</b>	< 30 seconds (T90)
<b>Output</b>	100 ± 20 nA/ppm