



5SFF

Product code: 5SFF

Manufacturer: City Technology

MEASUREMENT

Operating Principle: 3-electrode electrochemical

Nominal Range: 0-2000 ppm SO₂

Maximum Overload: 5000 ppm SO₂

Filter: To remove effects of H₂S and HCl

Filter Life: >200,000 ppm hours (1000 ppm H₂S @ 500 ml/min)

Sensitivity: 0.10 ± 0.02 µA/ppm

Response Time (T₉₀): < 40 seconds

Baseline Offset (clean air): ± 2 ppm equivalent

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

Resolution (When using recommended electronics): 1 ppm

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

Pressure Coefficient: Approx. 0.08% signal / mbar

Operating Pressure Range: Atmospheric ± 10%

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

LIFETIME

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



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Expected Operating Life: Two years in air
Storage Life: 6 months in CTL container

Life expectancy	> 24 months
Measurement range	0-2000 ppm
Target Gas	Sulfur Dioxide
Response Time	< 40 seconds (T90)
Output	100 ± 20 nA/ppm