



A3STF

Product code: A3STF

Manufacturer: City Technology

MEASUREMENT

Operating Principle: 4-electrode electrochemical

Measurement Range: 0-10 ppm SO₂

Maximum Overload: 100 ppm

Filter: To remove H₂S and HCl

Sensitivity: 0.60 ± 0.12 µA/ppm

Response Time (T₉₀): < 40 seconds

Baseline Offset (clean air): 0 to 0.1 ppm equivalent

Linearity: Linear

ELECTRICAL

Recommended Load Resistor: 10 Ω

Bias Voltage: Not Required

MECHANICAL

Weight: 22 g

Housing Material: Polycarbonate

Pin Material: Mild steel with gold flash over nickel plate

Orientation: Any

ENVIRONMENTAL

Typical Applications: Ambient Environmental Monitoring

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

Recommended Storage Temp: 0°C to 20°C

Operating Pressure Range: Atmospheric ± 10%

Pressure Coefficient: 0.020 ± 0.008 % signal/mBar

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

LIFETIME

Long Term Sensitivity Drift: <10% signal loss/year

Expected Operating Life: Three years in air



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Storage Life: 6 months in CTL container

Life expectancy	> 3 years
Measurement range	0-10 ppm
Target Gas	Sulfur Dioxide
Response Time	< 40 seconds (T90)
Output	600 ± 120 nA/ppm