



3STF

Product code: 3STF

Manufacturer: City Technology

MEASUREMENT

Operating Principle: 3-electrode electrochemical

Measurement Range: 0-100 ppm CO

Maximum Overload: 500 ppm CO

Filter: To remove H2S

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

Resolution: 0.5 ppm (electronics dependant)

Response Time (T90): <50 Seconds

Baseline Offset (clean air): -0.25 to +0.5 ppm equivalent

Zero Shift (+20°C to +40°C): 1 ppm equivalent

Repeatability: 1% of signal

Output Linearity: Linear

ELECTRICAL

Recommended Load Resistor: 10 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: 0.015% 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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Life expectancy	> 24 months
Measurement range	0-100 ppm
Target Gas	Sulfur Dioxide
Response Time	< 50 seconds (T90)
Output	370 ± 70 nA/ppm