



3E

Product code: 3E

Manufacturer: City Technology

MEASUREMENT

Operating Principle: 3-electrode electrochemical

Measurement Range: 0-1000 ppm CO

Maximum Overload: 2000 ppm CO

Filter: None

Sensitivity: $0.10 \pm 0.02 \mu\text{A/ppm}$

Resolution: 0.5 ppm CO

Response Time (T90): <25 seconds

Baseline Offset (clean air): -1 to +3 ppm equivalent

Zero Shift (+20°C to +40°C): <9 ppm equivalent

Repeatability: 1% of signal

Linearity: Linear

ELECTRICAL

Recommended Load Resistor: 10 Ω

Bias Voltage: Not Required

MECHANICAL

Weight: 22 g

Housing Material: 20% Glass Filled Polypropylene

Orientation: Any

ENVIRONMENTAL

Typical Applications: Fixed Life Safety

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

Recommended Storage Temp: 0°C to 20°C

Operating Pressure Range: Atmospheric $\pm 10\%$

Pressure Coefficient: $0.020 \pm 0.008 \%$ signal/mBar

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

LIFETIME

Long Term Sensitivity Drift: <5% signal loss/year

Expected Operating Life: three years in air

Storage Life: 6 months in CTL container



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Life expectancy	> 3 years
Measurement range	0-1000 ppm
Target Gas	Carbon Monoxide
Response Time	< 25 seconds (T90)
Output	100 ± 20 nA/ppm