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A7EF

Product code: A7EF

Manufacturer: City Technology

MEASUREMENT

Operating Principle: 4-electrode electrochemical

Measurement Range: 0-1000 ppm CO

Maximum Overload: 2000 ppm CO

Filter: To remove H₂S

Auxillary Electrode: To compensate for hydrogen cross interference

Sensitivity: 0.10 ± 0.02 µA/ppm

Response Time (T₉₀): <35 seconds at 20°C

Baseline Offset (clean air): -2 to +15 ppm CO equivalent

Resolution: 0.5 ppm (when used with recommended electronics)

Repeatability: 1% of signal

Linearity: Linear

ELECTRICAL

Recommended Load Resistor: 10 Ω

Bias Voltage: 0 or +250 mV

MECHANICAL

Weight: 25 g

Housing Material:

- Cap: Polycarbonate
- Body: ABS

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: 0.02% 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

Life expectancy	> 3 years
Measurement range	0-1000 ppm
Target Gas	Carbon Monoxide
Response Time	< 35 seconds (T90)
Output	100 ± 20 nA/ppm