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7E

Product code: 7E

Manufacturer: City Technology

MEASUREMENT

Operating Principle: 3-electrode electrochemical

Measurement Range: 0-1000 ppm CO

Maximum Overload: 2000 ppm CO

Filter: To remove SO_x/NO_x and H₂S

Sensitivity: 0.10 ± 0.02 µA/ppm

Response Time (T₉₀): <25 seconds at 20°C

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: 17 g

Housing Material:

- Cap: Polycarbonate
- Body: ABS

Orientation: Any

ENVIRONMENTAL

Typical Applications: Portable Life Safety

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



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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	< 25 seconds (T90)
Output	100 ± 20 nA/ppm