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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 H<sub>2</sub>S

**Auxillary Electrode:** To compensate for hydrogen cross interference

**Sensitivity:** 0.10 ± 0.02 µA/ppm

**Response Time (T<sub>90</sub>):** <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



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## LIFETIME

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

**Expected Operating Life:** Three years in air

**Storage Life:** 6 months in CTL container

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