



A5F+

Product code: A5F+

Manufacturer: City Technology

MEASUREMENT

Operating Principle: 4-electrode electrochemical

Nominal Range: 0 to 10,000 ppm CO

Maximum Overload: 20,000 ppm CO

Filter: To remove acid gases

Filter Capacity: > 275,000 ppm hours (900 ppm NO @ 200 ml/min)

Auxiliary Electrode: To compensate for maximum 2000 ppm H₂ cross interference

Sensitivity: 60 ± 20 nA/ppm

Response Time (T₉₀): < 30 seconds

Typical Net Range Baseline (clean air): -2 to +17 ppm CO equivalent

Typical Net Baseline Shift (+20°C to +40°C): 5 ppm CO equivalent

Repeatability: < 1% of signal

Linearity: Linear

ELECTRICAL

Resolution: Electronics dependent 1 ppm (based on City Technology recommended circuitry)

Recommended Load Resistor: 10 Ω

Bias Voltage: 0 mV or 250 mV

MECHANICAL

Housing Material: ABS

Weight: 13 g (nominal)

Orientation Sensitivity: None

ENVIRONMENTAL

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

Storage Temperature: 0°C to +20°C

Operating Pressure Range: Atmospheric ± 10%

Pressure Coefficient: 0.010% signal / mbar

Relative Humidity Range: 15% to 90% non-condensing



Tecnosens S.p.A.
Via Vergnano,16 25125
Brescia (BS) Italia

Tel: (+39) 030 3534144
Fax: (+39) 030 3530815
info@tecnosens.it
PEC: tecnosens@legalmail.it

LIFETIME

Long Term Output Drift: < 2% signal loss per month

Expected Operating Life: 3 years in air

Storage Life: 6 months in original packaging

Life expectancy	> 3 years
Measurement range	0-10.000 ppm
Target Gas	Carbon Monoxide
Response Time	< 30 seconds (T90)
Output	60 ± 20 nA/ppm