

Carbon Monoxide MediceLs[®]

A2E/F Characteristics

Nominal Range	0-200ppm
Maximum Overload	1000ppm
Output Signal	10.15±0.03µA/ppm
Typical Baseline Range (pure air)	<3ppm
Maximum Zero Shift (-20°C to +40°C)	<5ppm
Bias Voltage	Zero
Recommended Gain	2.2
Weight	25g

A3E/F Characteristics

Nominal Range	0-2000ppm
Maximum Overload	4000ppm
Output Signal	0.075±0.025µA/ppm
Typical Baseline Range (pure air)	-2 to +17ppm equivalent
Bias Voltage	² 0 or +250mV
Recommended Gain	0.5 to 2.5
Weight	26g

Note 1: in recommended circuit with Gain=2.2

Note 2: User adjusts Gain to set H₂ to zero

Performance Characteristics

Inboard Filter	To remove acid gases/alcohol
Auxiliary Electrode	To compensate for H ₂ cross-interference
Expected Operating Life	3 years
Resolution	1ppm
Temperature Range	-20°C to +50 °C
Pressure	
Operating Range	800-1200mBar
Storage Range	800-1200mBar
Max Diff (capillary to amb.)	±100mBar
Pressure Coefficient	0.02% signal/mBar
T ₉₀ Response Time	<40 seconds
Relative Humidity Range	15% to 90% non-condensing
Long Term Output Drift	<10% signal loss/year
Repeatability	2% of signal
Output Linearity	Linear

A2E/F Cross Sensitivity Data

Gas	Response
Hydrogen (H ₂)	-4 to + 4%
Hydrogen Sulphide (H ₂ S)	None
Sulphur Dioxide (SO ₂)	None
Nitric Oxide (NO)	None
Nitrogen Dioxide (NO ₂)	None
Hydrogen Chloride (HCl)	None

A3E/F Cross Sensitivity Data

Gas	Response
Hydrogen (H ₂)	
Bias: 0mV	<5%
Bias: 250mV	<1%
Hydrogen Sulphide (H ₂ S)	None
Sulphur Dioxide (SO ₂)	None
Nitric Oxide (NO)	None
Nitrogen Dioxide (NO ₂)	None
Hydrogen Chloride (HCl)	None

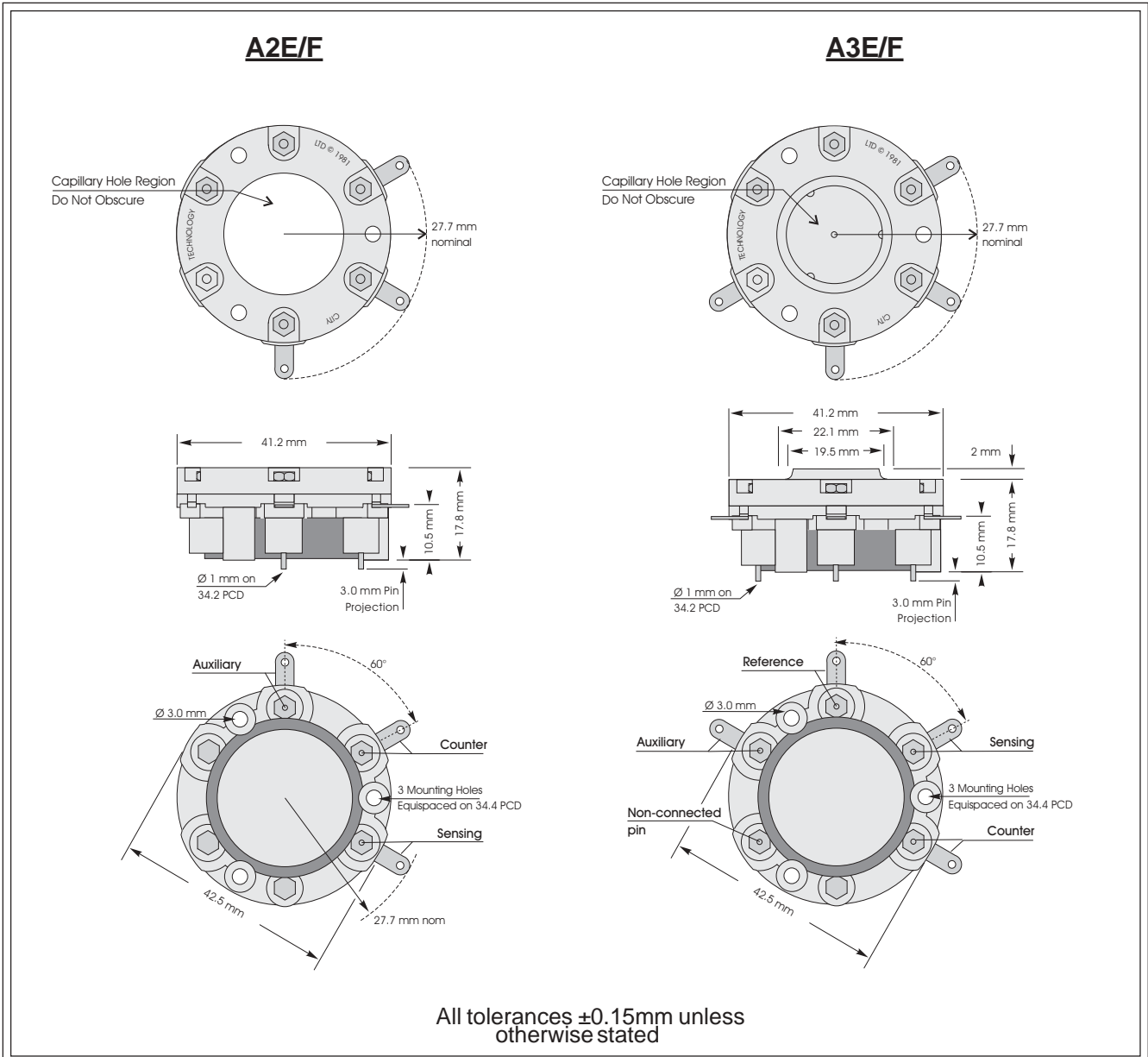
Products

A2E/F	Two-electrode CO sensor with auxiliary electrode for H ₂ compensation
A3E/F	Three-electrode CO sensor with auxiliary electrode for H ₂ compensation

Physical Characteristics

Position Sensitivity	None
Storage Life	Six months in CTL container
Recommended Storage Temperature	0-20°C
Colour Coded Ring	Red
Warranty Period	12 months from date of despatch

Carbon Monoxide MediceL[®] Specification



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Performance characteristics on this data sheet outline the performance of newly supplied sensors. Output signal can drift below the lower limit over time.



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