



ASH3-3E-1

Product code: ASH3-3E-1

Manufacturer: City Technology

Operating Principle: 3-electrode electrochemical

Measurement Range: 0-1 ppm AsH₃

Maximum Overload: 20 ppm

Lower Detection Limit: < 30 ppb when using recommended electronics

Filter: To remove H₂S

Filter Capacity: 200 ppm hr

Sensitivity: 1400 ± 450 nA/ppm

Response Time (T₉₀): <30 Seconds

Baseline Offset (clean air): < ±20 nA

Zero Shift (-40°C to +50°C): < ±40 ppb

Repeatability: <2 % of signal

Linearity: <10% of full scale

Recommended Load Resistor: 1.5 kΩ

Bias Voltage: 0 V

Resolution: Dependent on Electronics
< 15 ppb when using recommended circuitry

Housing Material: PPO Noryl

Weight: 4.5 g

Orientation: Any

Typical Applications: Portable & fixed life safety

Operating Temperature Range:

Continuous: -20°C to +40°C

Intermittent: -40°C to +50°C

Operating Pressure Range: Atmospheric ± 10%

Operating Humidity Range: 10% to 95% RH non-condensing

Maximum at 2000ppm: <0.2 mA at 100 ppm

Maximum o/c Voltage: <500 mV

Maximum s/c Current: <1.0 A

Long Term Output Drift: <5% per 6 months

Expected Operating Life: 2 years in normal use

Storage Life: 3 months in sealed container



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Standard Warranty: 10 months from date of despatch

Life expectancy	> 24 months
Measurement range	0-1 ppm
Target Gas	Arsine
Response Time	< 30 seconds (T90)
Output	1.4 ± 0.45 µA/ppm