



## ASH3-3E-1

**Product code:** ASH3-3E-1

**Manufacturer:** City Technology

**Operating Principle:** 3-electrode electrochemical

**Measurement Range:** 0-1 ppm AsH<sub>3</sub>

**Maximum Overload:** 20 ppm

**Lower Detection Limit:** < 30 ppb when using recommended electronics

**Filter:** To remove H<sub>2</sub>S

**Filter Capacity:** 200 ppm hr

**Sensitivity:** 1400 ± 450 nA/ppm

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

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