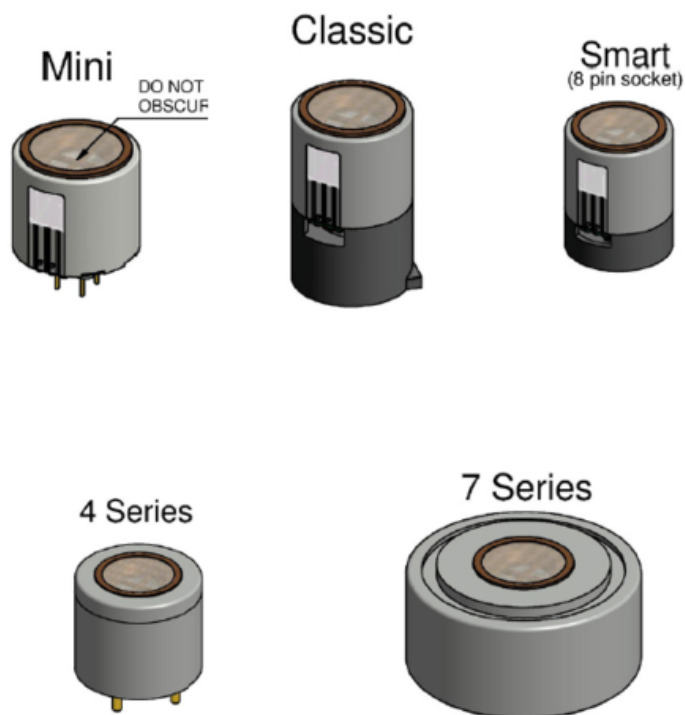




## SeH2 3E 5 LT

**Product code:** SeH2 3E 5 LT

**Manufacturer:** City Technology

### MEASUREMENT

**Operating Principle:** 3-electrode electrochemical

**Measurement Range:** 0-5 ppm SeH<sub>2</sub>

**Maximum Overload:** 10 ppm

**Lower Detection Limit:** 50 ppb when  
using recommended electronics

**Filter:** None

**Sensitivity:** 1100 ± 500 nA/ppm

**Response Time (T<sub>90</sub>):** <30 Seconds

**Baseline Offset (clean air):** < ±20 nA

**Zero Shift (-40°C to +50°C):** < ±60 ppb

**Repeatability:** <2% of signal

**Linearity:** <10% of full scale

### ELECTRICAL

**Recommended Load Resistor:** 1.5 kΩ

**Bias Voltage:** 0 V

**Resolution:** Dependent on Electronics <35 ppb  
when using recommended circuitry

### MECHANICAL

**Housing Material:** PPO Noryl

**Weight:** 4.5 g

**Orientation:** Any

### ENVIRONMENTAL

**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

#### **INTRINSIC SAFETY DATA**

**Maximum at 2000ppm:** <0.2 mA at 100 ppm

**Maximum o/c Voltage:** <500 mV

**Maximum s/c Current:** <1.0 A

#### **LIFETIME**

**Long Term Output Drift:** <5% per 6 months

**Expected Operating Life:** 2 years in normal use

**Storage Life:** 3 months in sealed container

**Standard Warranty:** 10 months from date of despatch

|                          |                    |
|--------------------------|--------------------|
| <b>Life expectancy</b>   | > 24 months        |
| <b>Measurement range</b> | 0-5 ppm            |
| <b>Target Gas</b>        | Hydrogen Selenide  |
| <b>Response Time</b>     | < 30 seconds (T90) |
| <b>Output</b>            | 1.1 ± 0.5 µA/ppm   |