



## HF 3E 10 SE

**Product code:** HF 3E 10 SE

**Manufacturer:** City Technology

**Operating Principle:** 3-electrode electrochemical

**Measurement Range:** 0-10 ppm

**Filter:** None

**Sensitivity:**  $300 \pm 100$  nA/ppm (negative signal)

**Response Time (T90):** < 90 s calculated from 3 min exposure time

**Baseline Offset (clean air):** <  $\pm 30$  nA

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

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

**Recommended Load Resistor:** None

**Bias Voltage:** Not required

**Resolution (Electronics dependent):** < 150 ppb

**Housing Material:** ABS

**Weight:**

2.3 g (Mini)

3.3 g (Classic)

2.8 g (Smart)

4.6 g (4 Series)

6.9 g (7 Series)

**Recommended Orientation:** sensor front pointing downwards or sideways

**Typical Applications:** TLV-monitoring, leakage detection, Portable & fixed point applications

**Operating Temperature Range:** -20°C to +40°C

**Operating Pressure Range:** Atmospheric  $\pm 10\%$

**Operating Humidity Range:** 15% to 90% r.h. non-condensing

**Maximum at 10ppm:** 0.4  $\mu$ A

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

**Maximum s/c Current:** 500  $\mu$ A

**Long Term Output Drift:** < 10% per 6 months

**Expected Operating Life:** > 18 months in air



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**Storage Life:** 8 weeks in sealed container  
**Standard Warranty:** 12 months from date of despatch

<b>Life expectancy</b>	> 18 months
<b>Measurement range</b>	0-10 ppm
<b>Target Gas</b>	Hydrofluoric acid
<b>Response Time</b>	< 90 seconds (T90)
<b>Output</b>	300 ± 100 nA/ppm