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## 7HL

**Product code:** 7HL

**Manufacturer:** City Technology

### MEASUREMENT

**Operating Principle:** 3-electrode electrochemical

**Measurement Range:** 0-50 ppm HCl

**Maximum overload:** 100 ppm HCl

**Filter:** None

**Sensitivity:**  $0.75 \pm 0.25 \mu\text{A/ppm}$

**Response Time (T90):** <120 Seconds at 20°C

**Zero Shift (+20°C to +40°C):** < 4 ppm HCl equivalent

**Resolution:** 0.5 ppm (when used with recommended electronics)

**Baseline Offset (clean air):** 0 to +2 ppm HCl equivalent

**Repeatability:** 2% of signal

**Linearity:** Linear

### ELECTRICAL

**Recommended Load Resistor:** 33  $\Omega$

**Bias Voltage:** +300 mV

### MECHANICAL

**Weight:** 17 g

**Housing Material:**

- Cap: Polycarbonate
- Body: ABS

**Orientation:** Any

### ENVIRONMENTAL

**Operating Temperature Range:** -20°C to +50°C

**Recommended Storage Temp:** 0°C to 20°C

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

**Operating Humidity Range:** 15 - 90% RH non-condensing

### LIFETIME



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**Long Term Sensitivity Drift:** <2% signal loss/month

**Expected Operating Life:** Two years in air

**Storage Life:** 6 months in CTL container

<b>Life expectancy</b>	> 24 months
<b>Measurement range</b>	0-50 ppm
<b>Target Gas</b>	Hydrogen Chloride
<b>Response Time</b>	< 120 seconds (T90)
<b>Output</b>	750 ± 250 nA/ppm