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## 7HH

**Product code:** 7HH

**Manufacturer:** City Technology

### MEASUREMENT

**Operating Principle:** 3-electrode electrochemical

**Measurement Range:** 0-50 ppm H<sub>2</sub>S

**Maximum Overload:** 500 ppm H<sub>2</sub>S

**Filter:** None

**Sensitivity:**  $1.7 \pm 0.3 \mu\text{A/ppm}$

**Response Time (T90):** <30 Seconds at 20°C

**Baseline Offset (clean air):** -0.2 to +0.4 ppm H<sub>2</sub>S equivalent

**Zero Shift (+20°C to +40°C):** < 0.1 ppm H<sub>2</sub>S equivalent

**Resolution:** 0.1 ppm (when used with recommended electronics)

**Repeatability:** 1% of signal

**Linearity:** Linear

### ELECTRICAL

**Recommended Load Resistor:** 10  $\Omega$

**Bias Voltage:** Not Required

### MECHANICAL

**Weight:** 12 g nominal

**Housing Material:**

- Cap: Polycarbonate
- Body: ABS

**Orientation:** Any

### ENVIRONMENTAL

**Operating Temperature Range:** -40°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/year  
**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 sulfide
<b>Response Time</b>	< 30 seconds (T90)
<b>Output</b>	1.7 ± 0.3 µA/ppm