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7HH

Product code: 7HH

Manufacturer: City Technology

MEASUREMENT

Operating Principle: 3-electrode electrochemical

Measurement Range: 0-50 ppm H₂S

Maximum Overload: 500 ppm H₂S

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 H₂S equivalent

Zero Shift (+20°C to +40°C): < 0.1 ppm H₂S equivalent

Resolution: 0.1 ppm (when used with recommended electronics)

Repeatability: 1% of signal

Linearity: Linear

ELECTRICAL

Recommended Load Resistor: 10 Ω

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

Life expectancy	> 24 months
Measurement range	0-50 ppm
Target Gas	Hydrogen sulfide
Response Time	< 30 seconds (T90)
Output	1.7 ± 0.3 µA/ppm