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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 Ω

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

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