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7ETO

Product code: 7ETO

Manufacturer: City Technology

MEASUREMENT

Operating Principle: 3-electrode electrochemical

Measurement Range: 0-20 ppm C₂H₄O

Maximum Overload: 100 ppm C₂H₄O

Filter: None

Sensitivity: $2.25 \pm 0.65 \mu\text{A/ppm}$

Response Time (T₉₀): <140 Seconds

Baseline Offset (clean air): 0 to +1 ppm C₂H₄O equivalent

Zero Shift (+20°C to +40°C): < 2 ppm C₂H₄O equivalent

Resolution: 0.1 ppm (when used with recommended electronics)

Repeatability: 1% of signal

Linearity: Linear

ELECTRICAL

Recommended Load Resistor: 10 Ω

Bias Voltage: +300 mV

MECHANICAL

Weight: 17 g nominal

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: < 5% signal loss/year
Expected Operating Life: Three years in air
Storage Life: 6 months in CTL container

Life expectancy	> 24 months
Measurement range	0-20 ppm
Target Gas	Ethylene Oxide
Response Time	< 140 seconds (T90)
Output	$2.25 \pm 0.65 \mu\text{A/ppm}$