



50xLL

Product code: 50xLL

Manufacturer: City Technology

MEASUREMENT

Technology: Electrochemical

Measurement Range: 0-25% vol. O₂

Maximum Overload: 30% vol. O₂

Output Signal: 80 - 130 mA in Air

T90 Response Time: <15 Seconds

T97 Response Time: <35 Seconds

Zero Current (Offset) (after 3 minute N₂): <0.3% vol. O₂

Warm-Up Time: Refer to Characterisation Note

Linearity: $S = K \log_e 1 / (1-C)$

ELECTRICAL

Power Rating at 20.9% O₂: 0.5 mW

Bias Voltage: -600 ± 10 mV

MECHANICAL

Casing Material: ABS/NORYL

Weight: 14 ± 0.2 g

Orientation Sensitivity: <0.2% vol. O₂ equivalent

ENVIRONMENTAL

Operating Temperature Range: -40°C to +60°C

Recommended Storage Temp: 0°C to 20°C in original packaging

Thermal Transient (Temp. plunge +22°C to -20°C): <23.5% vol. O₂

Operating Pressure Range: Atmospheric ± 20%

Pressure Coefficient: <0.02% signal/mbar

Pressure Transient (60 cm H₂O step change): <150% signal change

Operating Humidity Range: 15%rH to 90%rH non-condensing

LIFETIME

Long Term Sensitivity Drift: <5% signal loss over operating life



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Expected Operating Life: 7 years in air

Life expectancy	> 7 years
Measurement range	0-25% Oxygen
Target Gas	Oxygen
Response Time	< 15 seconds (T90)
Output	80 - 130 μ A in air