

# Transducer Technology Division

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INNOVATIVE SENSORS.  
CREATIVE SOLUTIONS

## 3 Electrode T1 Series Carbon Monoxide Sensor – 3ET1CO1500

		Mechanical Specifications	
		Dimensions	0.57" X 0.57" X 0.27".
		Weight	Less than 2 gram
		Material	Polypropylene
		Electrolyte	Etching liquid in matrix
		Connections	Socket
		Gas Supply	Diffusion through porous membrane

	<b>3ET1CO1500</b>
Measuring range	0-500 PPM
Maximum overload	1500 PPM
Measuring Principle	Electrochemical Oxidation of CO
Working Electrode Potential	Not required
Output Signal, Zero, 25 °C	< ± 5 ppm equivalent maximum
Output Signal, Span, 25 °C	70 to ± 15 nA / PPM
Lower Detection Limit	< 0.5 PPM (depends on circuitry)
Resolution	± 0.5 PPM (depends on circuitry)
Zero Reproducibility	± 2% of reading or 2 ppm
Span Reproducibility	± 1% of reading or 1 ppm
Output Linearity	Linear
Response Time (t-90)	< 30s typical at 20° C
Stabilization time	15 minutes (first installed in a circuit) thereafter < 30 sec.
Long Term Drift – Zero	Zero Signal ≤ ± 2 PPM / month
Long Term Drift – Span	Output Signal ≤ ± 2% of reading per month
Maximum Zero Shift	< 8 ppm equivalent (-20°C to +40°C)
Operating Temperature	-20 to 50° C (0 – 35° C recommended)
Operating Pressure Range	± 0.2 atm (recommended)
Operating Humidity Range	15 to 90% RH
Estimated Service Life	> 2 Years
Storage Temperature	22° C Recommended
Storage Pressure	1 ± 0.2 atm Recommended
Storage Humidity Range	50 to 65% RH Recommended
Storage Life	1 year in sealed package
Warranty	One year (extended warranty available)

Contact TTI for application information. TTI reserves the right to alter design features and specifications without notice.

Providing the best value in sensors and associated technology.