

Transducer Technology Division

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INNOVATIVE SENSORS.
CREATIVE SOLUTIONS

R Series Carbon Monoxide Sensor – RCO1000LRH/RCO1000LRHF

	Mechanical Specifications	
	Dimensions	All dimensions are in Inches.
Weight	Approximately 10 gram	
Material	Polypropylene (body)	
Electrolyte	Acid	
Connections	Gold Plated Pin	
Gas Supply	Diffusion through porous membrane	
<p>Important Note: Connection should be made via PCB sockets only. Soldering to the pins will render your warranty void.</p>		

Measuring range	0-1000 PPM
Measuring Principle	Electrochemical Oxidation of CO
Onboard Filter (For RCO1000LRHF only)	To remove SO _x , NO _x & H ₂ S
Working Electrode Potential	Not required
Output Signal, Zero, 25 °C	< ± 5 ppm equivalent maximum
Output Signal, Span, 25 °C	0.10 ± 0.02 μA / PPM
Lower Detection Limit	< 0.5 PPM (depends on circuitry)
Resolution	± 0.5 PPM (depends on circuitry)
Repeatability	1% of Signal
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 – 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	1.0 ± 0.2 atm (recommended)
Operating Humidity Range	3 to 60% RH
Estimated Service Life	> 2 Years
Storage Temperature	22° C Recommended
Storage Pressure	1.0 ± 0.2 atm Recommended
Storage Humidity Range	10 to 15% 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.