

Transducer Technology Division

8440 Central Ave, Suite# 2C, Newark, CA-94560
510-791-0951 support@transducertech.com

INNOVATIVE SENSORS.
CREATIVE SOLUTIONS

R Series Carbon Monoxide Sensor – RCO1000/RCO1000F

	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 RCO1000F 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	15 to 90% RH
Estimated Service Life	> 2 Years
Storage Temperature	22° C Recommended
Storage Pressure	1.0 ± 0.2 atm Recommended
Storage Humidity Range	60 to 80% 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.