

M-SERIES NITROGEN DIOXIDE SENSOR

Rev 01/08

PRINCIPLE OF OPERATION: Electrochemical Reaction

PERFORMANCE CHARACTERISTICS*:

MODEL	NO2-MNL	
Operating Range	0-10 PPM	
Maximum Concentration	TBD	
Sensitivity (µA/PPM)	0.17 ± 0.08 µA/PPM	
Precision/Repeatability	±2% of Signal	
Linearity	±5% of Reading or 1% of FS, whichever is greater	
Response Time (secs to 90% F.S.)	<60 secs to 90% Full Signal @ 3 ppm	
Resolution	10 PPB	
Background (nominal after warmup)	±.05µA	
Temperature Range: Continuous	-10 to + 40°C	
Intermittent	-20 to + 55°C	
Temperature Coefficient: Span (-10 to + 40°C)	1.5% /°C -10 TO +40°	
Baseline	±0.5 ppm over Temp Range	
Recommended Operating Pressure	Ambient ± 2 psi	
RH Range: Continuous	15-90% non-condensing	
Intermittent	0-99% non-condensing	
Stability: Span Drift	< 5% per month	
Background Drift	< 1 PPM per day	
Position Sensitivity	None	
Expected Lifetime	> 1 year	
Storage Life	> 6 months in container	

*Estimates based on laboratory testing at standard temperature, pressure, and humidity unless otherwise noted. Users must determine actual specifications in their application. Please refer to explanatory notes.

PHYSICAL DATA:

Operating Bias Potential: -100 mV (working vs. reference)
Weight: 5g
Dimensions: Diameter: 0.625 in.
 Height: 1.0 in.