

M-SERIES HYDROGEN SULFIDE SENSOR

Rev 01/2008

PRINCIPLE OF OPERATION: Electrochemical Reaction

PERFORMANCE CHARACTERISTICS*:

MODEL	H2S-MNS	
Operating Range	0-1,000 PPM	
Maximum Concentration	2,000 PPM	
Sensitivity (µA/PPM)	0.5 ± 0.25 µA/PPM	
Precision/Repeatability	±1% of Signal	
Linearity	±2% of Reading or 1% of FS, whichever is greater	
Response Time (secs to 90% F.S.)	<60 secs to 90% Full Signal	
Resolution	0.5 PPM	
Background (nominal after warmup)	±0.5 µA	
Temperature Range: Continuous Intermittent	-10 to + 40°C -20 to + 55°C	
Temperature Coefficient: Span (-10 to + 40°C) Baseline	< 0.1%/°C (-10 to + 20°C) < 0.5%/°C (20 to 40°C) < 0.1 PPM/°C	
Recommended Operating Pressure	Ambient ± 2 psi	
RH Range: Continuous Intermittent	15-90% non-condensing 0-99% non-condensing	
Stability: Span Drift Background Drift	< 2% per month < 2 PPM per day	
Position Sensitivity	None	
Expected Lifetime	> 2 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: +300 mV (working vs. reference)
Weight: 5g
Dimensions: Diameter: 0.625 in.
 Height (no Filter): 1.0 in.
 (with Filter): 1.1 in.