

Nitrogen dioxide MediceL[®] Specification



MND MediceLs[®]

Performance Characteristics

Output Signal	0.5 ± 0.1µA/ppm
Nominal Range	0-50ppm
Maximum Overload	200ppm
Resolution at 20°C	0.1ppm
Expected Operating Life	One year
T₉₀ Response Time	<40 seconds
Output Linearity	Linear
Maximum Zero Shift (+20°C to +40°C)	0.5ppm equivalent
Operating Temp Range	-20°C to +50 °C
Typical Baseline Range (pure air)	-0.75 to +0.75ppm equivalent
Pressure Operating Range	800-1200mBar
Storage Range	800-1200mBar
Max Diff (capillary to amb.)	±100mBar
Relative Humidity Range	15% to 90% non-condensing
Typical Long Term Output Drift	2% signal loss/month
Bias Voltage	Not required
Recommended Gain	0.8
Repeatability	2% of signal

Products

MND-1	4-electrode NO ₂ MediceL
MND-2	Compact 4-electrode NO ₂ MediceL

Physical Characteristics

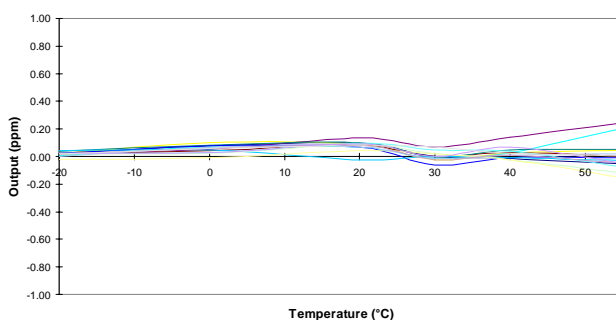
Material	20% glass-filled polypropylene
Weight	21g (MND-1), 16g (MND-2)
Position Sensitivity	None
Storage Life	Six months in CTL container
Recommended Storage Temperature	0-20°C
Colour Coded Ring	Black (MND-1 only)
Warranty Period	12 months from date of despatch

MND-1 / MND-2 Cross Sensitivity Data

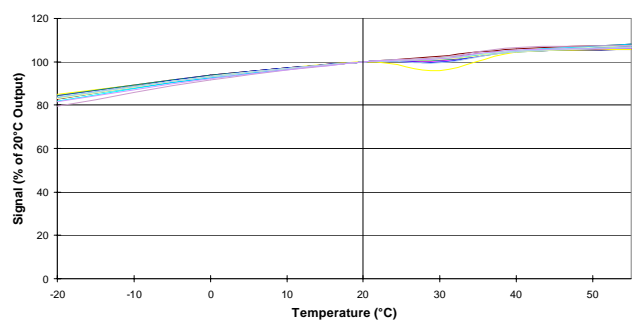
Gas	Response
Carbon monoxide (CO)	None
Nitrus oxide (N₂O)	None
Nitric oxide (NO)	None
Halothane	None
Isoflurane	None
Desflurane	None

N.B. Unaffected by operation in 100% oxygen

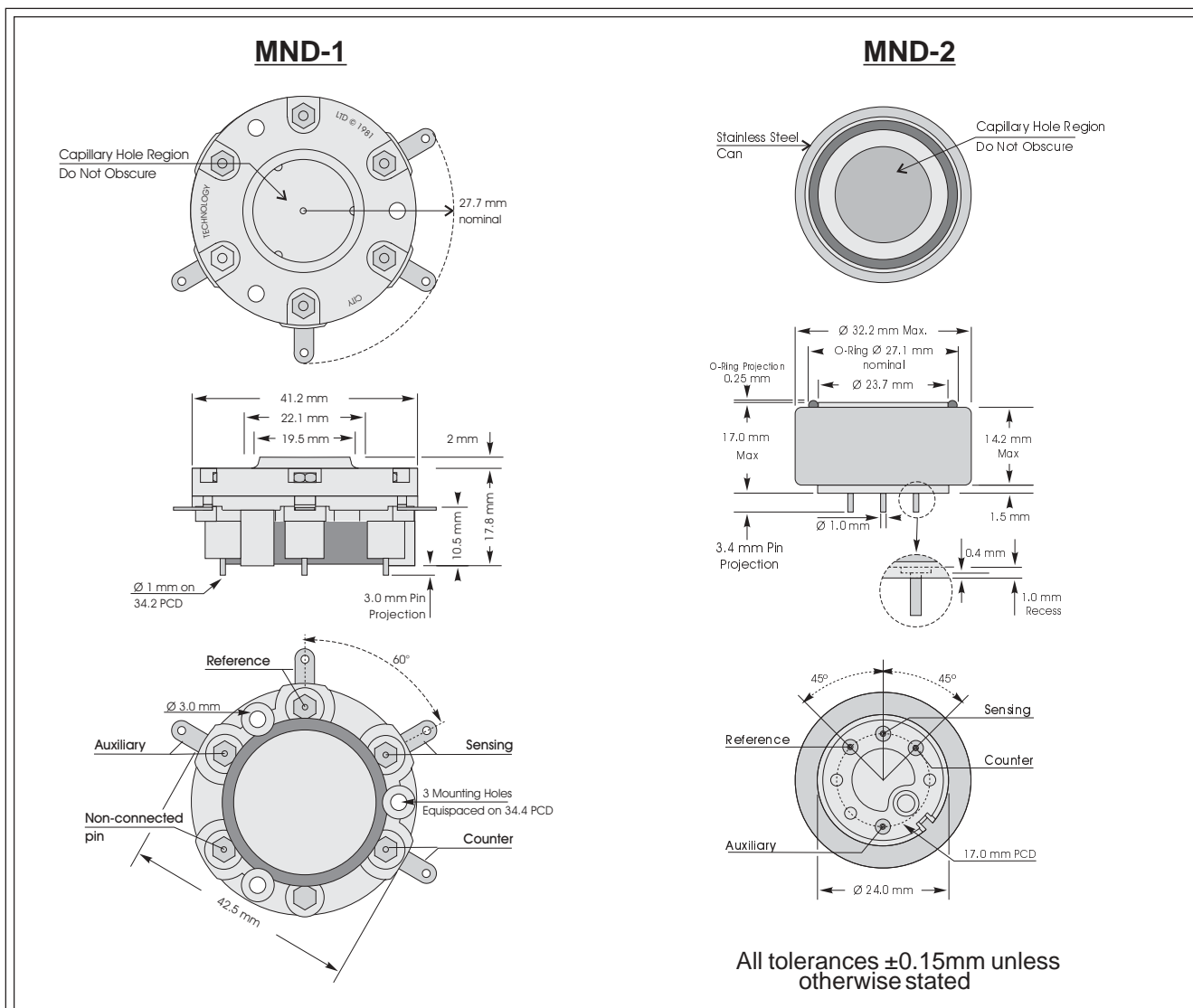
MND-1 Nitrogen Dioxide MediceL - Output vs Temperature
Gain = 0.8



MND-1 Nitrogen Dioxide MediceL - Output vs Temperature
Gain = 0.8



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Performance characteristics on this data sheet outline the performance of newly supplied sensors. Output signal can drift below the lower limit over time.