

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

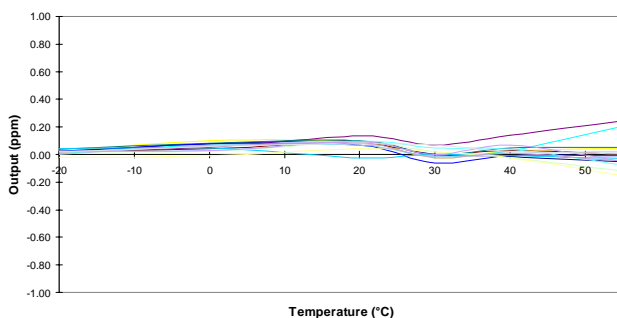
Material	20% glass-filled polypropylene
Weight	21g (MND-1), 16g (MND-2)
Position Sensitivity	None
Storage Life	Six months in CTL container
Recommended Storage Temperature	0-20°C
Colour Coded Ring	Black (MND-1 only)
Warranty Period	12 months from date of despatch

MND-1 / MND-2 Cross Sensitivity Data

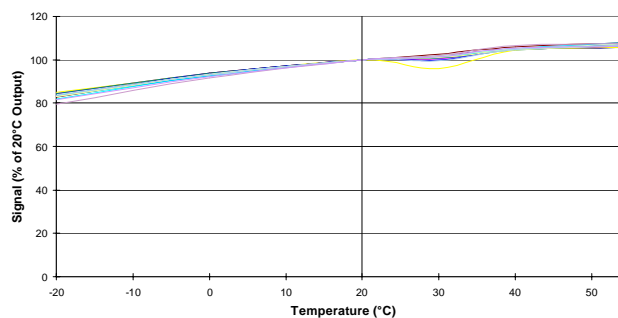
Gas	Response
Carbon monoxide (CO)	None
Nitrus oxide (N ₂ O)	None
Nitric oxide (NO)	None
Halothane	None
Isoflurane	None
Desflurane	None

N.B. Unaffected by operation in 100% oxygen

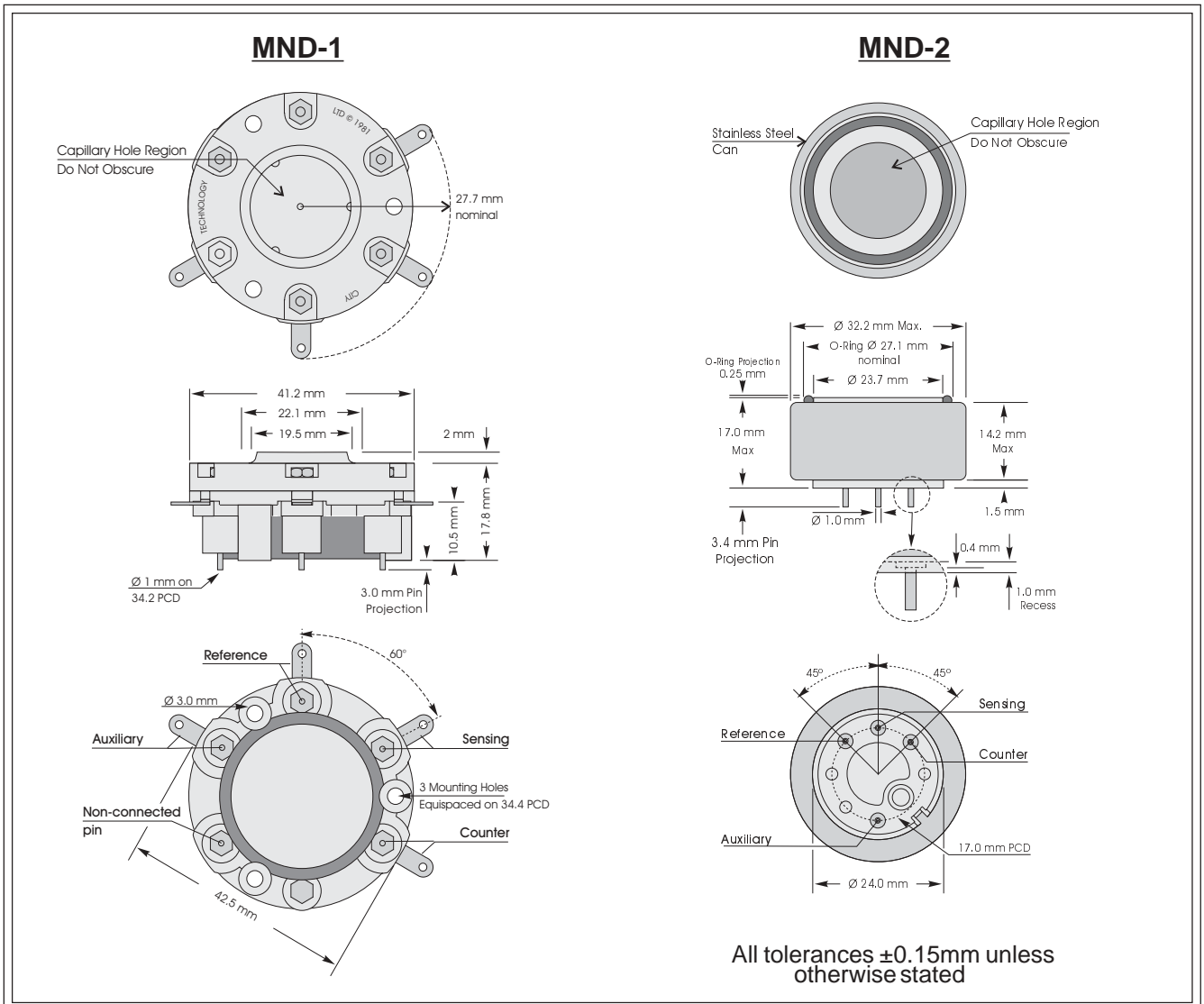
MND-1 Nitrogen Dioxide MediceL - Output vs Temperature
Gain = 0.8



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



Nitrogen dioxide MediceL[®] Specification



Every effort has been made to ensure the accuracy of this document at the time of printing. In accordance with the company's policy of continued product improvement City Technology Limited reserves the right to make product changes without notice. No liability is accepted for any consequential losses, injury or damage resulting from the use of this document or from any omissions or errors herein. The data is given for guidance only. It does not constitute a specification or an offer for sale. The products are always subject to a programme of improvement and testing which may result in some changes in the characteristics quoted. As the products may be used by the client in circumstances beyond the knowledge and control of City Technology Limited, we cannot give any warranty as to the relevance of these particulars to an application. It is the clients' responsibility to carry out the necessary tests to determine the usefulness of the products and to ensure their safety of operation in a particular application.

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