



# MND MediceLs<sup>®</sup>



## Performance Characteristics

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

## Products

<b>MND-1</b>	4-electrode NO <sub>2</sub> MediceL
<b>MND-2</b>	Compact 4-electrode NO <sub>2</sub> MediceL

## Physical Characteristics

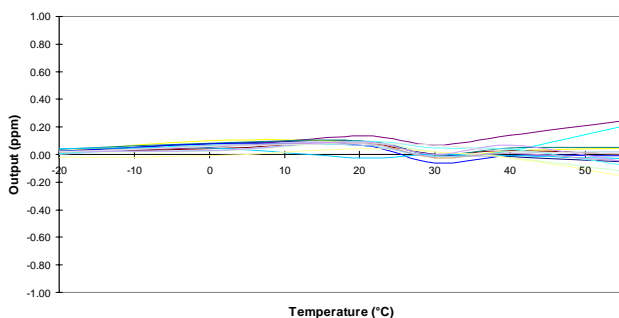
<b>Material</b>	20% glass-filled polypropylene
<b>Weight</b>	21g (MND-1), 16g (MND-2)
<b>Position Sensitivity</b>	None
<b>Storage Life</b>	Six months in CTL container
<b>Recommended Storage Temperature</b>	0-20°C
<b>Colour Coded Ring</b>	Black (MND-1 only)
<b>Warranty Period</b>	12 months from date of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

## MND-1 / MND-2 Cross Sensitivity Data

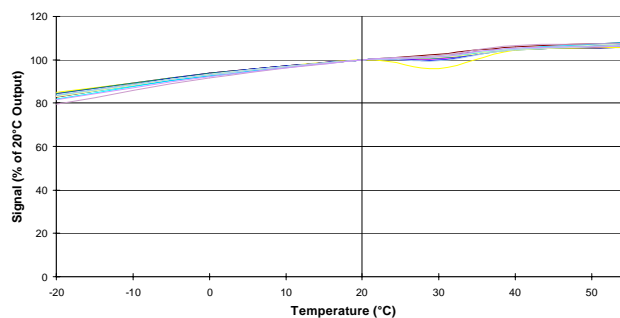
Gas	Response
Carbon monoxide (CO)	None
Nitrus oxide (N <sub>2</sub> O)	None
Nitric oxide (NO)	None
Halothane	None
Isoflurane	None
Desflurane	None

N.B. Unaffected by operation in 100% oxygen

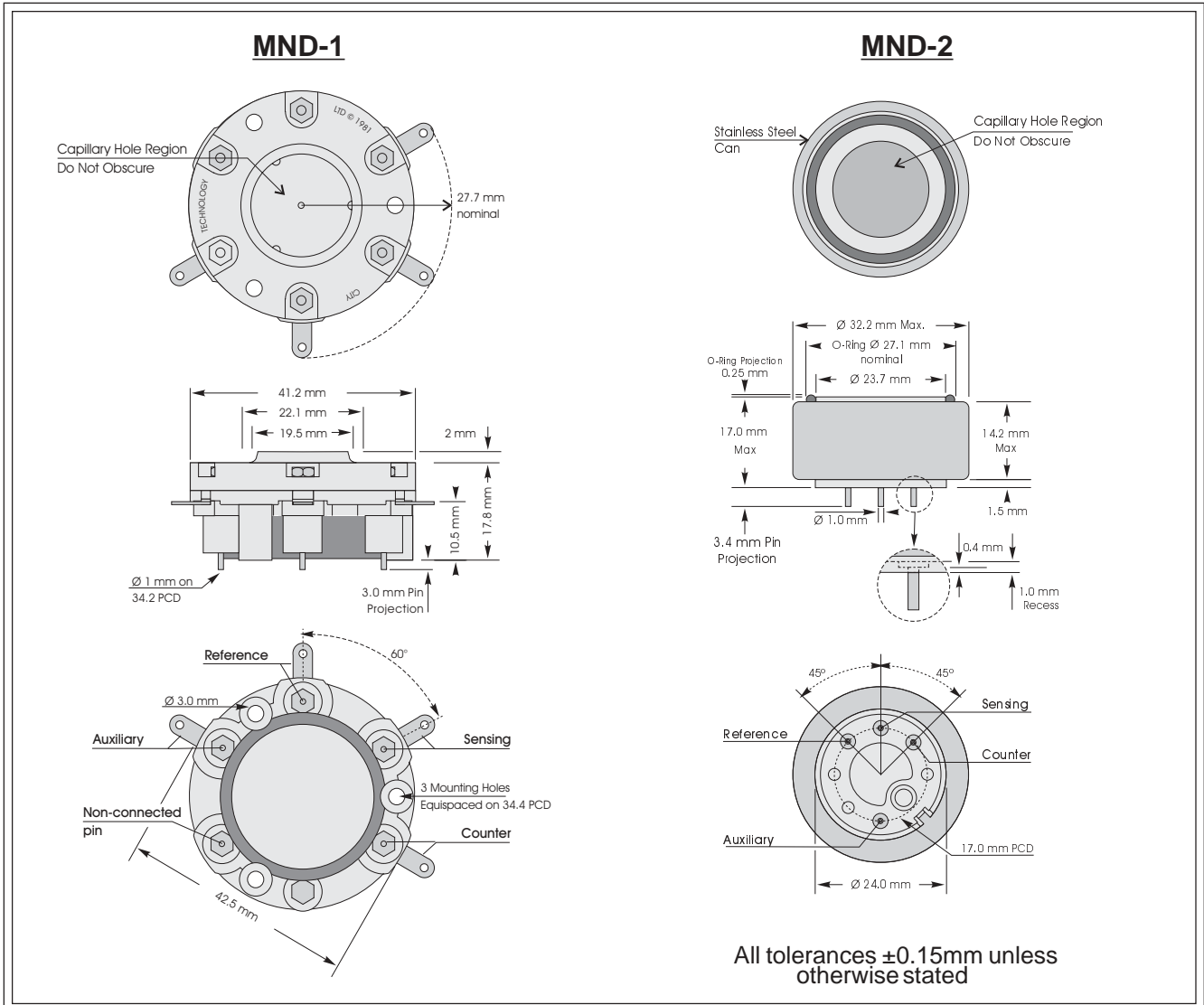
MND-1 Nitrogen Dioxide MediceL - Output vs Temperature  
Gain = 0.8



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



# Nitrogen dioxide MediceL<sup>®</sup> Specification



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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.