

# Manufacturer Calibration Certificate

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The following instrument has been tested and calibrated to the manufacturer specifications.  
The calibration is traceable in accordance with ISO/IEC 17025 covering all instrument functions.

- Device Type: **M2230 Measurement Microphone**  
consisting of  
MA220                      Serial Number:     6196  
Capsule                    Serial Number:     9093

- Date of Calibration: **23 August 2016**
- Certificate Number: **42605-6196-M2230**

- Results: **PASSED**  
(for detailed report see next page)

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Tested by:                      M.Frick

Signature:

Stamp:

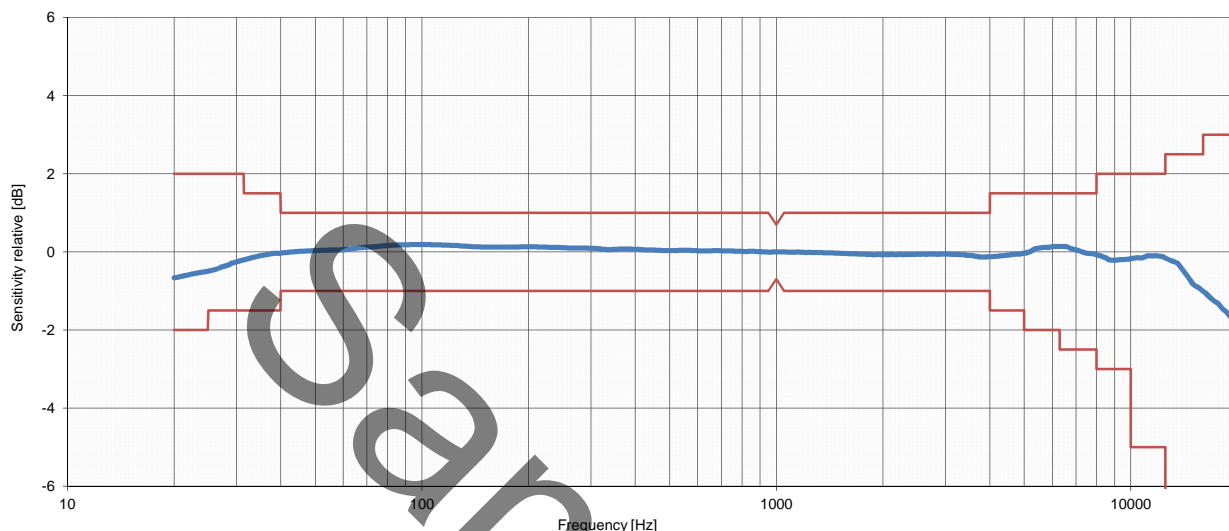


**NTi Audio AG**  
Im alten Riet 102  
LI - 9494 Schaan  
[www.nti-audio.com](http://www.nti-audio.com)

Date: 23 August 2016  
 Calibration of: M2230 Measurement Microphone  
 MA220 Serial Number: 6196  
 Capsule Serial Number: 9093

- Measurement Data on Receipt: **in tolerance**
- Detailed Calibration Test Results:

Frequency response: **Class 1 acc. IEC 61672**



	before	actual	calibration uncertainty <sup>1</sup>
Sensitivity @ 1 kHz, 114 dB SPL	43.5 mV/Pa	<b>43.2 mV/Pa</b>	±2.85%

- Test Conditions:
 

Temperature:	23.7 °C	±0.5 °C
Relative Humidity:	44 %	±2%
Air Pressure:	97.68 kPa	±0.25 kPa

• Calibration Equipment Used:

- Norsonic Sound Calibrator, Type 1251, S/No. 30930  
 Last Calibration: 03.12.2014, Next Calibration: 03.12.2016  
 Calibrated by Metas, Switzerland
- NTi Audio FX100, S/No. 11094  
 Last Calibration: 16.08.2016, Next Calibration: 16.08.2017  
 Calibrated by NTi Audio meeting product specifications
- MTG MV203, S/No. 0630 / Mic Capsule, MK221 S./No. 16502  
 Last Calibration: 30.11.2015, Next Calibration: 30.11.2017  
 Calibrated by MTG, Germany

<sup>1</sup> The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with the regulations of the GUM.