

Manufacturer Calibration Certificate

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: **Minirator MR-PRO**
- Serial Number: **G2P-RAFBJ-G0**

- Date of Calibration: **29 August 2016**
- Certificate Number: **42611-G2P-RAFBJ-G0**

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

Tested by: M. Frick

Signature:

Stamp:



NTi Audio AG
Im alten Riet 102
LI 9494 Schaan
www.nti-audio.com

Calibration of: Minirator MR-PRO
 Serial Number: G2P-RAFBJ-G0
 Date: 29 August 2016

• Measurement Data on Receipt: **in tolerance**

• Detailed Calibration Test Results:

	before	actual	unit	error	MR-PRO tolerance	calibration uncertainty ¹
Level, 15 dBu @ 1kHz	15.03	15.00	dBu	0.00	±0.2 dB	±0.13%
Level, 0 dBu @ 1kHz	0.05	0.02	dBu	0.02	±0.2 dB	±0.10%
Level, 0 dBu @ 20Hz	0.27	0.25	dBu	0.25		±0.10%
Level, 0 dBu @ 20kHz	0.04	0.01	dBu	0.01		±0.10%
THD+N @ 18 dBu, 1 kHz	< -96	< -96	dB	-	typ. -96 dB	±0.2%
THD+N @ 0 dBu, 1 kHz (Low pass 22 kHz, average)	< -90	< -90	dB	-	typ. -90 dB	±0.2%
Phantom Power 48VDC, reference =	45.80	46.50	46.50	VDC	1.5%	±1.4 V ±0.01%
Impedance Test, 10 Ohm @ 0dBu, 1kHz	9.90	9.90	Ohm	1.0%	±2 Ohm	±0.05%
Impedance Test, 1000 Ohm @ 0dBu, 1kHz	1.00	1.00	kOhm	≤0.1%	±100 Ohm	±0.01%

- Test Conditions:

Temperature:	26	°C
Relative Humidity:	41	%

• Calibration Equipment Used:

- Agilent Multimeter, Typ 34401A, Serial No. US 3611 3653
 Last calibration: 17.08.2016, Next calibration: 17.08.2017
 Calibrated by ELCAL to the national standards maintained at Swiss Federal Office of Metrology. SCS 002
- FX100 Audio Analyzer, Serial No. 11201
 Last Calibration: 18.03.2016, Next Calibration: 18.03.2017
 Manufacturer calibration based on Agilent 34410, Serial No. MY47014254,
 Last Calibration: 03.06.2016, Next Calibration: 03.06.2017
 which is calibrated by ELCAL to national standards maintained at Swiss Federal Office of Metrology. SCS 002

¹ 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.