



# OMICRON HGT1 Handheld Grounding Tester User Manual

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**OMICRON HGT1 Handheld Grounding Tester**



## HGT1 Technical Data

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## Technical specifications

**Table 1-1 HGT1 Input**

Input Impedance Selection	Input Impedance	Voltage	Accuracy (15 Hz ... 20 kHz)	Residual Noise (100 Hz mode)
1 k $\Omega$	1 k $\Omega$	25 VRMS	+0.5 %; -1.0 %	< 10 $\mu$ V
1 k $\Omega$ + 1 k $\Omega$	2 k $\Omega$	50 VRMS	+0.5 %; -1.0 %	
HIGH Z	200 k $\Omega$	25 V <sub>RMS</sub>	+0.5 %; -1.0 %	

**Table 1-2 FFT Specifications**

The HGT1 uses zoom FFT with the following parameters:

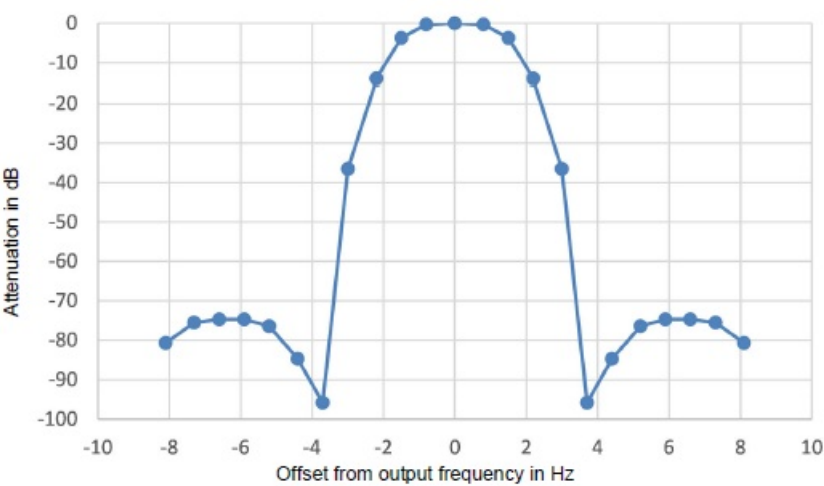
- FFT size: 512 samples

- FFT resolution: 142 bins
- FFT repetition rate: 187,5 Hz (one FFT per 5.3 ms).
- The results of the FFT shown on the HGT1's screen are updated every 50 ms by averaging the individual FFT results.

**Table 1-3**  
 FFT parameters for 100 Hz and 400 Hz frequency range selection

Frequency range selection	100 Hz	400 Hz
Frequency range	104 Hz	414 Hz
Frequency resolution	0.73 Hz	2.92 Hz
Window size	1.37 s	342 ms
Overlapping	99.6 %	98.4 %

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**Figure 1-1** Filter selectivity for 100 Hz range

Temperature	-10 °C (14 °F) ... +50 °C (122 °F)
Humidity	5 % to 90 % RH, non-condensing

**Table 1-4** Environmental Conditions  
**Table 1-5** Mechanics

Dimensions (L x W x H)	180 mm x 90 mm x 45 mm 7.1" x 3.5" x 1.8"
Weight	480 g (1 lb) including Li-Po battery

**CE declaration of conformity**

We, the manufacturer  
NTi Audio AG  
Im alten Riet 102  
9494 Schaan

Liechtenstein, Europe does hereby declare that the HGT1, released in 2013, complies with the following standards or other standard documents:

- EMC: 2004/108/EG
- Harmonized standards: EN 61326-1
- Explosive atmospheres (ATEX): 94/9/EG
- Directive 2011/65/EC on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS).
- Directive 2002/96/EC on waste electrical and electronic equipment (WEEE).

This declaration will become invalid if modifications to the instrument are carried out without the written approval of NTi Audio.


Date: 1. February 2013

Signature: *M. Becker*

Position: Technical Director

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## Documents / Resources

	<p><a href="#">OMICRON HGT1 Handheld Grounding Tester</a> [pdf] User Manual</p> <p>HGT1, HGT1 Handheld Grounding Tester, Handheld Grounding Tester, Grounding Tester, Tester</p>
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## References

- [User Manual](#)