

# Certificate of Calibration

Gigahertz Solutions GmbH

March 24, 2025

## Abstract

Certificate no.:	035000000702-20250324
Item:	NFA-1000
Manufacturer:	Gigahertz Solutions GmbH
Serial no.:	035000000702
Calibration procedure:	see text
Date of calibration:	March 24, 2025
Date of issue:	March 24, 2025
Editor:	T. Lorenz
Number of pages:	4

All equipment used for the calibration is subject to continuous monitoring.

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T. Lorenz

# 1 Absolute Value of Electric Field Strength

Absolute value of calibration at 50 Hz

## 1.1 Testing procedure

E-field generator with a plate distance of 100 cm from AC voltage source. The instrument is calibrated without holster.

## 1.2 Testing equipment used

4 sqm homogeneous E-field generator EG50, Gigahertz Solutions  
Signal generator WG 1475, MRR Systems  
LF power amplifier FPA-12A, Fidek  
Multimeter Fluke 289

## 1.3 Result

Axis	Voltage on field plates [V rms]	DUT [V/m rms]
X	100.0	100.0
Y	100.0	99.9
Z	100.0	99.9

# 2 Absolute Value of Magnetic Flux Density

## 2.1 Testing procedure

Precision current measurement on a Helmholtz coil uninfluential of the skin-effect in the conductors

## 2.2 Testing equipment used

Broadband Helmholtz coil HS1001, Gigahertz Solutions  
Selectable power source GB101, Gigahertz Solutions  
D/A transducer USRP 1, Ettus Research  
Multimeter 289 Fluke  
Power supply PS-2403D

## 2.3 Result

Voltage on high precision measurement resistor: 1.6611 V  $\Rightarrow$  nominal value 999.81942 nT

Axis	DUT [nT]
X	1006
Y	1000
Z	1002

### 3 Frequency Response of Electrical Field Strenght

#### 3.1 Testing procedure

Capacitive coupling of a logarithmic sine sweep from 1 Hz to 4 MHz.

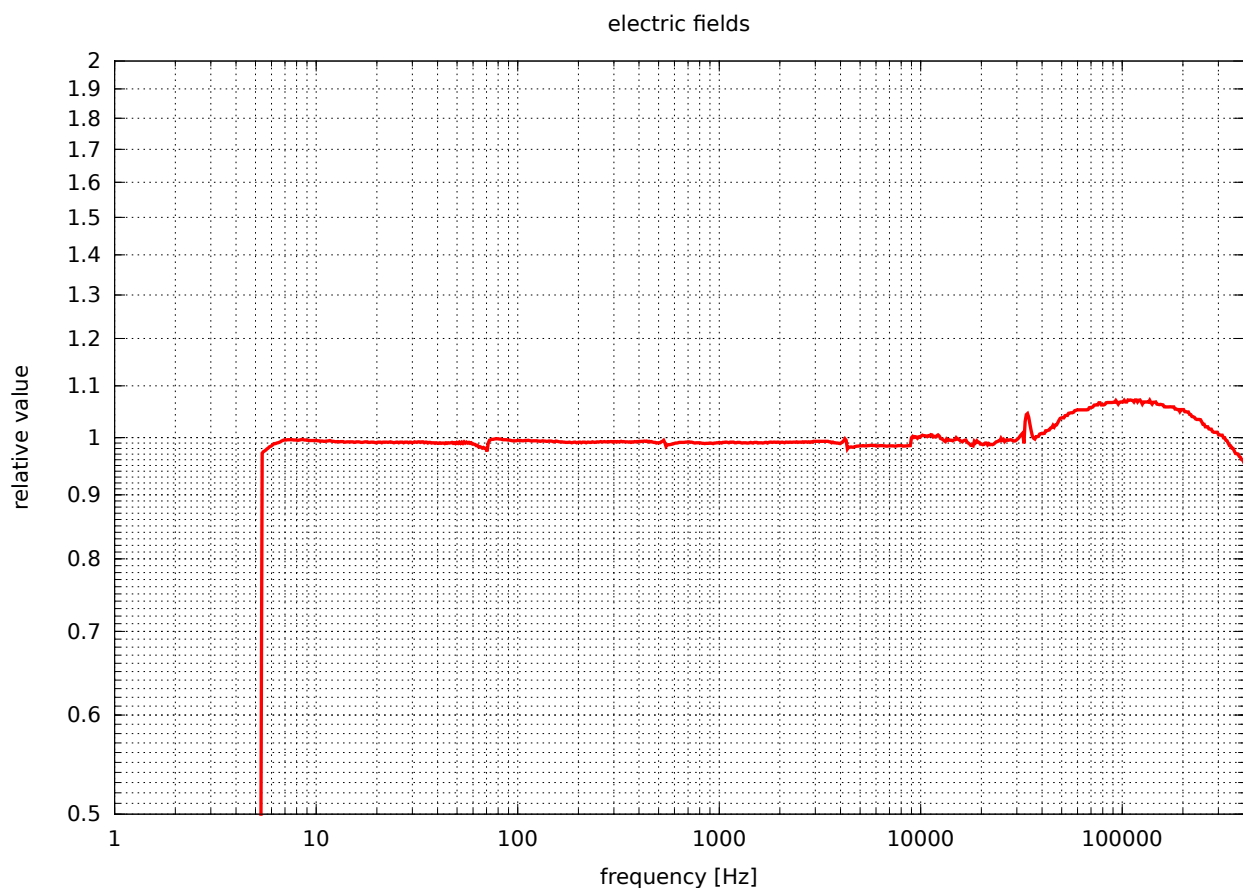
#### 3.2 Testing equipment used

Device for capacitive MDR-coupling E-HIP-P0, Gigahertz Solutions

D/A transducer USRP 1, Ettus Research

LF-high precision amplifier, Gigahertz Solutions

#### 3.3 Result



For technical reasons calibration protocols can be issued up to 400 kHz only for the time being.

## 4 Frequency Response of Magnetic Flux Density

### 4.1 Testing procedure

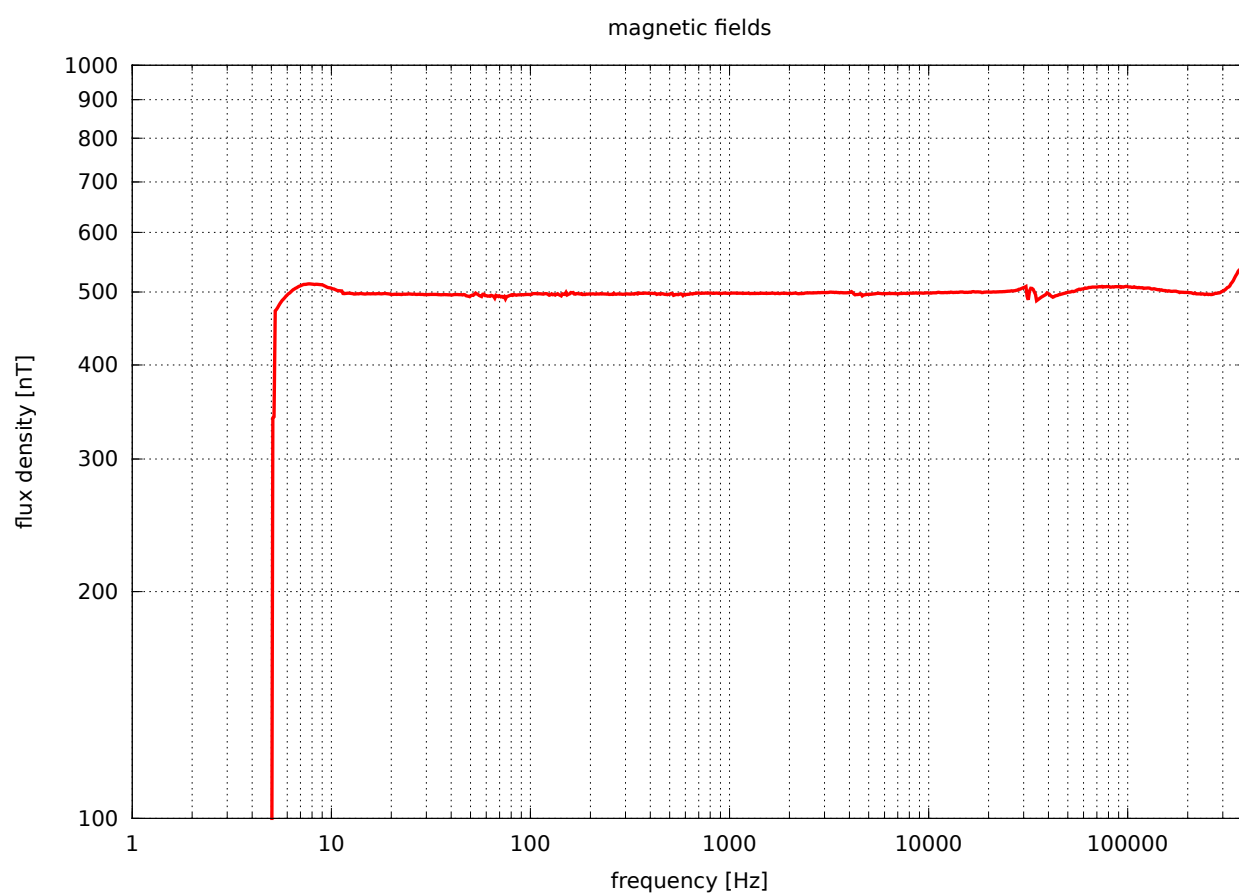
see 2.1

Nominal value: 500nT

### 4.2 Testing equipment used

see 2.2

### 4.3 Result



For technical reasons calibration protocols can be issued up to 400 kHz only for the time being.





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GRIECHENLAND

Handelsregister: HRB 6459 Fürth/Bayern

Langenzenn, 27. 03. 2025

### CERTIFICATE OF CONFORMITY

Gigahertz Solutions GmbH hereby certifies that the below instrument(s) for measuring alternating fields have been examined in the past days and are conform to their specifications.

Meter	Serial Number
NFA 30 M	035000000886
NFA 30 M	035000002027

Gigahertz Solutions GmbH further certifies that the laboratory instrumentation used to prove the instruments' quality have been calibrated to a laboratory standard directly traceable to the German "Physikalisch-Technische Bundesanstalt", the National Institute of Standards, or natural physical constants at planned intervals.

Gigahertz Solutions' "Total Quality" System is monitored by VDE, the German Association for Electrical, Electronic & Information Technologies to assure the compliance of the manufactured products to published specifications, especially for the safety of the produced demand switches.

  
Birgit König



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Steuernr. 2182740021

### Certificate of Calibration

This AC Milligauss Meter, Model UHS2, serial #870, is guaranteed accurate to  $\pm 7\%$  of reading  $\pm 1$  count for sine wave signals in the frequency range 45 Hz to 5 kHz and within temperature limits 30°F - 110°F. Calibration was performed on all 3 axes by a Helmholtz coil with calibrated field strength, traceable to NIST or to natural physical constants. Verification of the coil field strength is performed at least once every six months by direct measurement of lengths and electrical current. The current measurement in the Helmholtz coil was done with an Extech Instruments Model 560A Multimeter, serial #Z335975. The Helmholtz dimensions were measured using a Mitutoyo 500-321 Digimatic Caliper, serial #7043458. Calibration of the multimeter and the caliper were done using ISO/IEC 17025 and ANSI/NCSL Z540-1 traceable to NIST standards and is current and performed annually. Uncertainty of the standards is less than  $\pm 0.1\%$ , so the TAR is greater than 4:1.

Recalibration of this AC Milligauss Meter, Model UHS2, is not necessary within an interval of less than one year to maintain accuracy as shown above.

  
\_\_\_\_\_  
Tristan Volpe  
Engineer

NOV 18 2024  
\_\_\_\_\_  
Date

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Langenzenn, 15.7.2024

### CERTIFICATE OF CONFORMITY

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Meter	Serial Number
HF38B	053 000036809

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Langenzenn, 14.08.2023

### CERTIFICATE OF CONFORMITY

Gigahertz Solutions GmbH hereby certifies that the below instrument(s) for measuring alternating fields have been examined in the past days and are conform to their specifications.

Meter	Serial Number
HFW59D	053 0000 41417

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Langenzenn,

14.8.2023

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Meter	Serial Number
HF59B	053 000018861

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Langenzenn, Nov. 10, 2021

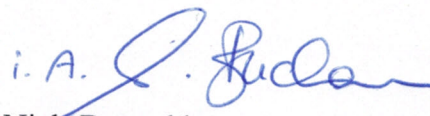
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Meter	Serial Number
HF 58 B	053000029876

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Langenzenn, 23.8.2021

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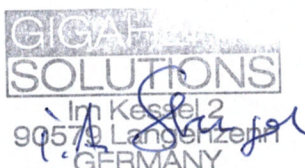
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Meter	Serial Number
FF10 Filkr	053012000271

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Langenzenn, 23.8.2021

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Meter	Serial Number
UBB27-63	053030017574

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Langenzenn, 11.05.2020

**Certificate of Conformity**

Gigahertz Solutions GmbH hereby certifies that the below instrument(s) for measuring alternating fields have been examined in the past days and are conform to their specifications.

Meter	Serial Number
HF38B	053000040 869

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Langenzenn, 7.5.2020

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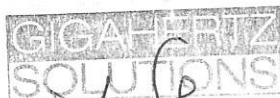
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Meter	Serial Number
HF38B	053000040817

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Langenzenn, 29.06.2020

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Meter	Serial Number
HF38B	053000012013

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Langenzenn, 5.7.2019

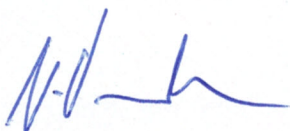
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NFA 30M	035000000613

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Langenzenn, 27.05.19

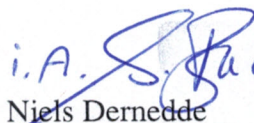
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HF 38B	0530 0003 8825

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Langenzenn, 27.10.18

### Certificate of Conformity

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Meter	Serial Number
HF 38 B	053 0000 277 39

Gigahertz Solutions GmbH further certifies that the laboratory instrumentation used to prove the instruments' quality have been calibrated to a laboratory standard directly traceable to the German "Physikalisch-Technische Bundesanstalt", the National Institute of Standards, or natural physical constants at planned intervals.

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Langenzenn, 7.3.2018

**Certificate of Conformity**

Gigahertz Solutions GmbH hereby certifies that the below instrument(s) for measuring alternating fields have been examined in the past days and are conform to their specifications.

Meter	Serial Number
NFA 30M	035000001274

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Langenzenn, January 11, 2018

**Certificate of Conformity**

Gigahertz Solutions GmbH hereby certifies that the below instrument(s) for measuring alternating fields have been examined in the past days and are conform to their specifications.

HF38B                      serial number 053000015719

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Langenzenn, Dec. 20, 2017

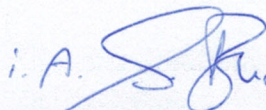
### Certificate of Conformity

Gigahertz Solutions GmbH hereby certifies that the below instrument(s) for measuring alternating fields have been examined in the past days and are conform to their specifications.

Meter	Serial Number
HF 38 B	053000035393

Gigahertz Solutions GmbH further certifies that the laboratory instrumentation used to prove the instruments' quality have been calibrated to a laboratory standard directly traceable to the German "Physikalisch-Technische Bundesanstalt", the National Institute of Standards, or natural physical constants at planned intervals.

Gigahertz Solutions' "Total Quality" System is monitored by VDE, the German Association for Electrical, Electronic & Information Technologies to assure the compliance of the manufactured products to published specifications, especially for the safety of the produced demand switches.

i.A.   
Niels Dernedde

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Handelsregister:

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Langenzenn, 28.11.2017

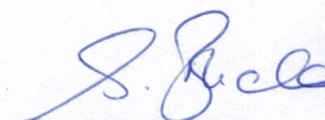
### Certificate of Conformity

Gigahertz Solutions GmbH hereby certifies that the below instrument(s) for measuring alternating fields have been examined in the past days and are conform to their specifications.

Meter	Serial Number
HE 3030B	013000059393

Gigahertz Solutions GmbH further certifies that the laboratory instrumentation used to prove the instruments' quality have been calibrated to a laboratory standard directly traceable to the German "Physikalisch-Technische Bundesanstalt", the National Institute of Standards, or natural physical constants at planned intervals.

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Niels Dervedde

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