Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





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Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

Client

Auden

Certificate No: AM1DV3-3067 Dec19

CALIBRATION CERTIFICATE

Object AM1DV3 - SN: 3067

Calibration procedure(s) QA CAL-24.v4

Calibration procedure for AM1D magnetic field probes and TMFS in the

audio range

Calibration date: December 10, 2019

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

AMMI Audio Measuring Instrument | SN: 1062

| Primary Standards | ID# | Cal Date (Certificate No.) | Scheduled Calibration |
|-------------------------------|-------------|-----------------------------------|-----------------------|
| Keithley Multimeter Type 2001 | SN: 0810278 | 03-Sep-19 (No. 25949) | Sep-20 |
| Reference Probe AM1DV3 | SN: 3000 | 13-Aug-19 (No. AM1DV3-3000_Aug19) | Aug-20 |
| DAE4 | SN: 781 | 09-Jan-19 (No. DAE4-781_Jan19) | Jan-20 |
| | Lenin | Let | In |
| Secondary Standards | ID# | Check Date (in house) | Scheduled Check |
| AMCC | SN: 1050 | 01-Oct-13 (in house check Oct-17) | Oct-20 |

26-Sep-12 (in house check Oct-17)

Name Function Signature
Calibrated by: Leif Klysner Laboratory Technician

Approved by: Katja Pokovic Technical Manager

Issued: December 10, 2019

Oct-20

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[References

- [1] ANSI-C63.19-2007
 American National Standard for Methods of Measurement of Compatibility between Wireless Communications Devices and Hearing Aids.
- [2] ANSI-C63.19-2011
 American National Standard, Methods of Measurement of Compatibility between Wireless Communications Devices and Hearing Aids.
- [3] DASY5 manual, Chapter: Hearing Aid Compatibility (HAC) T-Coil Extension

Description of the AM1D probe

The AM1D Audio Magnetic Field Probe is a fully shielded magnetic field probe for the frequency range from 100 Hz to 20 kHz. The pickup coil is compliant with the dimensional requirements of [1+2]. The probe includes a symmetric low noise amplifier for the signal available at the shielded 3 pin connector at the side. Power is supplied via the same connector (phantom power supply) and monitored via the LED near the connector. The 7 pin connector at the end of the probe does not carry any signals, but determines the angle of the sensor when mounted on the DAE. The probe supports mechanical detection of the surface.

The single sensor in the probe is arranged in a tilt angle allowing measurement of 3 orthogonal field components when rotating the probe by 120° around its axis. It is aligned with the perpendicular component of the field, if the probe axis is tilted nominally 35.3° above the measurement plane, using the connector rotation and sensor angle stated below. The probe is fully RF shielded when operated with the matching signal cable (shielded) and allows measurement of audio magnetic fields in the close vicinity of RF emitting wireless devices according to [1+2] without additional shielding.

Handling of the item

The probe is manufactured from stainless steel. In order to maintain the performance and calibration of the probe, it must not be opened. The probe is designed for operation in air and shall not be exposed to humidity or liquids. For proper operation of the surface detection and emergency stop functions in a DASY system, the probe must be operated with the special probe cup provided (larger diameter).

Methods Applied and Interpretation of Parameters

- Coordinate System: The AM1D probe is mounted in the DASY system for operation with a HAC
 Test Arch phantom with AMCC Helmholtz calibration coil according to [3], with the tip pointing to
 "southwest" orientation.
- Functional Test: The functional test preceding calibration includes test of Noise level RF immunity (1kHz AM modulated signal). The shield of the probe cable must be well connected.
 Frequency response verification from 100 Hz to 10 kHz.
- Connector Rotation: The connector at the end of the probe does not carry any signals and is used for fixation to the DAE only. The probe is operated in the center of the AMCC Helmholtz coil using a 1 kHz magnetic field signal. Its angle is determined from the two minima at nominally +120° and 120° rotation, so the sensor in the tip of the probe is aligned to the vertical plane in z-direction, corresponding to the field maximum in the AMCC Helmholtz calibration coil.
- Sensor Angle: The sensor tilting in the vertical plane from the ideal vertical direction is determined from the two minima at nominally +120° and -120°. DASY system uses this angle to align the sensor for radial measurements to the x and y axis in the horizontal plane.
- Sensitivity: With the probe sensor aligned to the z-field in the AMCC, the output of the probe is compared to the magnetic field in the AMCC at 1 kHz. The field in the AMCC Helmholtz coil is given by the geometry and the current through the coil, which is monitored on the precision shunt resistor of the coil.

AM1D probe identification and configuration data

| Item | AM1DV3 Audio Magnetic 1D Field Probe |
|-----------|--------------------------------------|
| Type No | SP AM1 001 BA |
| Serial No | 3067 |

| Overall length | 296 mm |
|--------------------|------------------------------------|
| Tip diameter | 6.0 mm (at the tip) |
| Sensor offset | 3.0 mm (centre of sensor from tip) |
| Internal Amplifier | 20 dB |

| | | _ |
|-----------------------|--|---|
| Manufacturer / Origin | Schmid & Partner Engineering AG, Zurich, Switzerland | 1 |

Calibration data

| Connector rotation angle | (in DASY system) | 268.1 ° | +/- 3.6 ° (k=2) |
|--------------------------|------------------|---------|-----------------|
| Sensor angle | (in DASY system) | 0.65 ° | +/- 0.5 ° (k=2) |

Sensitivity at 1 kHz (in DASY system) **0.00738 V/(A/m)** +/- 2.2 % (k=2)

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

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Client

Sporton

Certificate No: DAE4-854 May20

Accreditation No.: SCS 0108

CALIBRATION CERTIFICATE

Object

DAE4 - SD 000 D04 BM - SN: 854

Calibration procedure(s)

QA CAL-06.v30

Calibration procedure for the data acquisition electronics (DAE)

Calibration date:

May 26, 2020

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID# | Cal Date (Certificate No.) | Scheduled Calibration |
|-------------------------------|--------------------|----------------------------|------------------------|
| Keithley Multimeter Type 2001 | SN: 0810278 | 03-Sep-19 (No:25949) | Sep-20 |
| Secondary Standards | ID# | Check Date (in house) | Scheduled Check |
| Auto DAE Calibration Unit | SE UWS 053 AA 1001 | 09-Jan-20 (in house check) | In house check: Jan-21 |
| Calibrator Box V2.1 | SE UMS 006 AA 1002 | 09-Jan-20 (in house check) | In house check: Jan-21 |

Calibrated by:

Name Dominique Steffen Function

Signature

Laboratory Technician

Approved by:

Sven Kühn

Deputy Manager

Issued: May 26, 2020

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Certificate No: DAE4-854_May20

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Accreditation No.: SCS 0108

Glossary

DAE

data acquisition electronics

Connector angle

information used in DASY system to align probe sensor X to the robot

coordinate system.

Methods Applied and Interpretation of Parameters

- DC Voltage Measurement: Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- Connector angle: The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
 - DC Voltage Measurement Linearity: Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
 - Common mode sensitivity: Influence of a positive or negative common mode voltage on the differential measurement.
 - Channel separation: Influence of a voltage on the neighbor channels not subject to an input voltage.
 - AD Converter Values with inputs shorted: Values on the internal AD converter corresponding to zero input voltage
 - Input Offset Measurement: Output voltage and statistical results over a large number of zero voltage measurements.
 - Input Offset Current: Typical value for information; Maximum channel input offset current, not considering the input resistance.
 - Input resistance: Typical value for information: DAE input resistance at the connector, during internal auto-zeroing and during measurement.
 - Low Battery Alarm Voltage: Typical value for information. Below this voltage, a battery alarm signal is generated.
 - Power consumption: Typical value for information. Supply currents in various operating modes.

Certificate No: DAE4-854_May20

DC Voltage Measurement

A/D - Converter Resolution nominal

High Range:

1LSB =

6.1µV,

full range = -100...+300 mV

Low Range:

1LSB =

61nV,

full range = -1.....+3mV

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| Calibration Factors | Х | Υ | z |
|---------------------|-----------------------|-----------------------|-----------------------|
| High Range | 404.902 ± 0.02% (k=2) | 404.679 ± 0.02% (k=2) | 405.773 ± 0.02% (k=2) |
| Low Range | 3.97207 ± 1.50% (k=2) | 3.94819 ± 1.50% (k=2) | 3.99503 ± 1.50% (k=2) |

Connector Angle

| Connector Angle to be used in DASY system | 325.0 ° ± 1 ° |
|---|---------------|

Certificate No: DAE4-854_May20

Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

| High Range | | Reading (μV) | Difference (μV) | Error (%) |
|------------|---------|--------------|-----------------|-----------|
| Channel X | + Input | 199995.13 | 2.57 | 0.00 |
| Channel X | + Input | 20000.49 | -1.29 | -0.01 |
| Channel X | - Input | -19998.95 | 2.31 | -0.01 |
| Channel Y | + Input | 199993.48 | 0.79 | 0.00 |
| Channel Y | + Input | 19999.49 | -2.26 | -0.01 |
| Channel Y | - Input | -20000.37 | 0.92 | -0.00 |
| Channel Z | + Input | 199993.40 | 0.68 | 0.00 |
| Channel Z | + Input | 19998.76 | -2.86 | -0.01 |
| Channel Z | - Input | -20001.56 | -0.21 | 0.00 |

| Low Range | | Reading (μV) | Difference (μV) | Error (%) |
|-----------|---------|--------------|-----------------|-----------|
| Channel X | + Input | 2001.29 | 0.12 | 0.01 |
| Channel X | + Input | 201.78 | 0.21 | 0.10 |
| Channel X | - Input | -198.04 | 0.29 | -0.15 |
| Channel Y | + Input | 2001.22 | 0.20 | 0.01 |
| Channel Y | + Input | 201.23 | -0.23 | -0.12 |
| Channel Y | - Input | -198.91 | -0.49 | 0.25 |
| Channel Z | + Input | 2001.14 | 0.16 | 0.01 |
| Channel Z | + Input | 200.64 | -0.72 | -0.36 |
| Channel Z | - Input | -199.54 | -1.00 | 0.51 |

2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| | Common mode Input Voltage (mV) | High Range Average Reading (μV) | Low Range Average Reading (μV) |
|-----------|--------------------------------|------------------------------------|-----------------------------------|
| Channel X | 200 | -12.20 | -13.58 |
| | - 200 | 14.65 | 13.01 |
| Channel Y | 200 | -7.85 | -8.28 |
| | - 200 | 7.33 | 7.21 |
| Channel Z | 200 | 16.85 | 16.68 |
| | - 200 | -19.88 | -19.26 |

3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| | Input Voltage (mV) | Channel X (μV) | Channel Y (μV) | Channel Z (μV) |
|-----------|--------------------|----------------|----------------|----------------|
| Channel X | 200 | - | 1.88 | -3.29 |
| Channel Y | 200 | 7.95 | <u>-</u> | 3.37 |
| Channel Z | 200 | 9.73 | 5.70 | - |

4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| 100 | High Range (LSB) | Low Range (LSB) |
|-----------|------------------|-----------------|
| Channel X | 16117 | 14859 |
| Channel Y | 15964 | 16277 |
| Channel Z | 15850 | 15306 |

5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Input $10M\Omega$

| | Average (μV) | min. Offset (μV) | max. Offset (μV) | Std. Deviation (μV) |
|-----------|--------------|------------------|------------------|---------------------|
| Channel X | 0.75 | -0.29 | 1.77 | 0.34 |
| Channel Y | 0.27 | -0.62 | 2.21 | 0.42 |
| Channel Z | -0.21 | -0.99 | 0.48 | 0.30 |

6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25fA

7. Input Resistance (Typical values for information)

| | Zeroing (kOhm) | Measuring (MOhm) |
|-----------|----------------|------------------|
| Channel X | 200 | 200 |
| Channel Y | 200 | 200 |
| Channel Z | 200 | 200 |

8. Low Battery Alarm Voltage (Typical values for information)

| Typical values Alarm Level (VDC) | | |
|----------------------------------|------|--|
| Supply (+ Vcc) | +7.9 | |
| Supply (- Vcc) | -7.6 | |

9. Power Consumption (Typical values for information)

| Typical values | Switched off (mA) | Stand by (mA) | Transmitting (mA) |
|----------------|-------------------|---------------|-------------------|
| Supply (+ Vcc) | +0.01 | +6 | +14 |
| Supply (- Vcc) | -0.01 | -8 | -9 |

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Multilateral Agreement for the recognition of calibration certificates

Client Sporton

Accreditation No.: SCS 0108

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Certificate No: DAE4-1311_Aug20

CALIBRATION CERTIFICATE

Object DAE4 - SD 000 D04 BM - SN: 1311

Calibration procedure(s) QA CAL-06.v30

Calibration procedure for the data acquisition electronics (DAE)

Calibration date: August 25, 2020

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

| ID# | Cal Date (Certificate No.) | Scheduled Calibration |
|--------------------|---------------------------------------|--|
| SN: 0810278 | 03-Sep-19 (No:25949) | Sep-20 |
| ID# | Check Date (in house) | Scheduled Check |
| SE UWS 053 AA 1001 | 09-Jan-20 (in house check) | In house check: Jan-21 |
| SE UMS 006 AA 1002 | 09-Jan-20 (in house check) | In house check: Jan-21 |
| | SN: 0810278 ID # SE UWS 053 AA 1001 | SN: 0810278 03-Sep-19 (No:25949) ID # Check Date (in house) |

Name Function
Calibrated by: Dominique Steffen Laboratory Technician

Approved by: Sven Kühn Deputy Manager

Issued: August 25, 2020

Signature

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Certificate No: DAE4-1311_Aug20

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Glossary

DAE

data acquisition electronics

Connector angle

information used in DASY system to align probe sensor X to the robot

coordinate system.

Methods Applied and Interpretation of Parameters

- DC Voltage Measurement: Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- Connector angle: The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
 - DC Voltage Measurement Linearity: Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
 - Common mode sensitivity: Influence of a positive or negative common mode voltage on the differential measurement.
 - Channel separation: Influence of a voltage on the neighbor channels not subject to an input voltage.
 - AD Converter Values with inputs shorted: Values on the internal AD converter corresponding to zero input voltage
 - Input Offset Measurement. Output voltage and statistical results over a large number of zero voltage measurements.
 - Input Offset Current: Typical value for information; Maximum channel input offset current, not considering the input resistance.
 - Input resistance: Typical value for information: DAE input resistance at the connector, during internal auto-zeroing and during measurement.
 - Low Battery Alarm Voltage: Typical value for information. Below this voltage, a battery alarm signal is generated.
 - Power consumption: Typical value for information. Supply currents in various operating modes.

Certificate No: DAE4-1311_Aug20

DC Voltage Measurement

A/D - Converter Resolution nominal

 $\begin{array}{lll} \mbox{High Range:} & \mbox{1LSB} = & \mbox{6.1}\mu\mbox{V} \;, & \mbox{full range} = & \mbox{-100...+300 mV} \\ \mbox{Low Range:} & \mbox{1LSB} = & \mbox{61nV} \;, & \mbox{full range} = & \mbox{-1......+3mV} \end{array}$

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| Calibration Factors | X | Υ | Z |
|---------------------|-----------------------|-----------------------|-----------------------|
| High Range | 405.541 ± 0.02% (k=2) | 405.068 ± 0.02% (k=2) | 404.859 ± 0.02% (k=2) |
| Low Range | 3.96497 ± 1.50% (k=2) | 3.99434 ± 1.50% (k=2) | 3.97518 ± 1.50% (k=2) |

Connector Angle

| Connector Angle to be used in DASY system | 224.0 ° ± 1 ° |
|---|---------------|

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Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

| High Range | | Reading (μV) | Difference (μV) | Error (%) |
|------------|---------|--------------|-----------------|-----------|
| Channel X | + Input | 200000.37 | 3.16 | 0.00 |
| Channel X | + Input | 20002.24 | -0.39 | -0.00 |
| Channel X | - Input | -19996.82 | 4.30 | -0.02 |
| Channel Y | + Input | 199997.04 | 0.18 | 0.00 |
| Channel Y | + Input | 19999.89 | -2.59 | -0.01 |
| Channel Y | - Input | -20000.23 | 1.07 | -0.01 |
| Channel Z | + Input | 199998.33 | 1.73 | 0.00 |
| Channel Z | + Input | 20001.98 | -0.51 | -0.00 |
| Channel Z | - Input | -20001.94 | -0.70 | 0.00 |

| Low Range | | Reading (μV) | Difference (μV) | Error (%) |
|-----------|---------|--------------|-----------------|-----------|
| Channel X | + Input | 2002.59 | 0.66 | 0.03 |
| Channel X | + Input | 203.33 | 1.16 | 0.58 |
| Channel X | - Input | -198.01 | -0.30 | 0.15 |
| Channel Y | + Input | 2003.05 | 1.33 | 0.07 |
| Channel Y | + Input | 200.94 | -1.06 | -0.52 |
| Channel Y | - Input | -198.39 | -0.59 | 0.30 |
| Channel Z | + Input | 2001.63 | -0.00 | -0.00 |
| Channel Z | + Input | 200.79 | -1.09 | -0.54 |
| Channel Z | - Input | -199.49 | -1.56 | 0.79 |

2. Common mode sensitivityDASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| | Common mode Input Voltage (mV) | High Range Average Reading (μV) | Low Range Average Reading (μV) |
|-----------|-----------------------------------|------------------------------------|-----------------------------------|
| Channel X | 200 | 13.76 | 11.68 |
| | - 200 | -10.33 | -12.34 |
| Channel Y | 200 | -12.59 | -13.41 |
| | - 200 | 13.16 | 12.73 |
| Channel Z | 200 | -18.42 | -18.67 |
| | - 200 | 16.91 | 16.46 |

3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| | Input Voltage (mV) | Channel X (μV) | Channel Y (μV) | Channel Z (μV) |
|-----------|--------------------|----------------|----------------|----------------|
| Channel X | 200 | - | 4.10 | -2.98 |
| Channel Y | 200 | 8.85 | - | 5.41 |
| Channel Z | 200 | 10.45 | 7.09 | - |

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4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| | High Range (LSB) | Low Range (LSB) |
|-----------|------------------|-----------------|
| Channel X | 15434 | 15549 |
| Channel Y | 16319 | 15622 |
| Channel Z | 16577 | 17455 |

5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec Input $10M\Omega$

| | Average (μV) | min. Offset (μV) | max. Offset (μV) | Std. Deviation (μV) |
|-----------|--------------|------------------|------------------|------------------------|
| Channel X | 0.90 | -0.71 | 2.58 | 0.62 |
| Channel Y | 0.17 | -0.98 | 1.34 | 0.48 |
| Channel Z | -0.27 | -1.68 | 1.50 | 0.54 |

6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25fA

7. Input Resistance (Typical values for information)

| | Zeroing (kOhm) | Measuring (MOhm) |
|-----------|----------------|------------------|
| Channel X | 200 | 200 |
| Channel Y | 200 | 200 |
| Channel Z | 200 | 200 |

8. Low Battery Alarm Voltage (Typical values for information)

| Typical values | Alarm Level (VDC) | |
|----------------|-------------------|--|
| Supply (+ Vcc) | +7.9 | |
| Supply (- Vcc) | -7.6 | |

9. Power Consumption (Typical values for information)

| Typical values | Switched off (mA) | Stand by (mA) | Transmitting (mA) |
|----------------|-------------------|---------------|-------------------|
| Supply (+ Vcc) | +0.01 | +6 | +14 |
| Supply (- Vcc) | -0.01 | -8 | -9 |

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