

Schweizerischer Kalibrierdienst

Service suisse d'étalonnage

C Servizio svizzero di taratura

S Swiss Calibration Service

Accreditation No.: SCS 0108

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Client Sporton

Certificate No: AM1DV3-3130_Nov20

CALIBRATION CERTIFICATE

Object	AM1DV3 - SN: 3130				
	QA CAL-24.v4 Calibration procedure for AM1D magnetic field probes and TMFS in the audio range				
Calibration date:	November 26, 2020				
The measurements and the uncerta	inties with confidenc	national standards, which realize the physical units e probability are given on the following pages and atory facility: environment temperature (22 ± 3)°C a	are part of the certificate.		
Primary Standards		Cal Date (Certificate No.)	Scheduled Calibration		
Keithley Multimeter Type 2001 Reference Probe AM1DV2 DAE4	SN: 0810278 SN: 1008 SN: 781	07-Sep-20 (No. 28647) 10-Dec-19 (No. AM1DV2-1008_Dec19) 27-Dec-19 (No. DAE4-781_Dec19)	Sep-21 Dec-20 Dec-20		
Secondary Standards	1D #	Check Date (in house)	Scheduled Check		
AMCC AMMI Audio Measuring Instrument	SN: 1050 SN: 1062	01-Oct-13 (in house check Oct-20) 26-Sep-12 (in house check Oct-20)	Oct-23 Oct-23		
	Name	Function	Signature		
Calibrated by:	Jeton Kastrati	Laboratory Technician	signature		
Approved by:	Katja Pokovic	Technical Manager	lay		

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).

- 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	3130

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
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Calibration data

Connector rotation angle	(in DASY system)	80.5 °	+/- 3.6 ° (k=2)
Sensor angle	(in DASY system)	0.96 °	+/- 0.5 ° (k=2)
Sensitivity at 1 kHz	(in DASY system)	0.00743 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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Accreditation No.: SCS 0108

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Client Sporton Certificate No: AM1DV3-3104_Mar21

IBRATION CERTIFICATE CA

	AM1DV3 - SN: 3104			
	QA CAL-24.v4 Calibration procedure for AM1D magnetic field probes and TMFS in the audio range			
Calibration date:	March 24, 202			
The measurements and the uncerta	inties with confidenc	national standards, which realize the physical units e probability are given on the following pages and a atory facility: environment temperature (22 ± 3)°C a	are part of the certificate.	
Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration	
Keithley Multimeter Type 2001	SN: 0810278	07-Sep-20 (No. 28647)	Sep-21	
Reference Probe AM1DV2	SN: 1008	15-Dec-20 (No. AM1DV2-1008_Dec20)	Dec-21	
DAE4	SN: 781	23-Dec-20 (No. DAE4-781_Dec20)	Dec-21	
Secondary Standards	ID #	Check Date (in house)	Scheduled Check	
	011 4050		e en e da en e en e en e en e	
AMCC	SN: 1050	01-Oct-13 (in house check Oct-20)	Oct-23	
AMCC AMMI Audio Measuring Instrument	SN: 1050 SN: 1062	01-Oct-13 (in house check Oct-20) 26-Sep-12 (in house check Oct-20)		
	SN: 1062	26-Sep-12 (in house check Oct-20)	Oct-23 Oct-23	
AMMI Audio Measuring Instrument	SN: 1062 Name	26-Sep-12 (in house check Oct-20) Function	Oct-23 Oct-23 Signature	
	SN: 1062	26-Sep-12 (in house check Oct-20)	Oct-23 Oct-23 Signature	
AMMI Audio Measuring Instrument	SN: 1062 Name	26-Sep-12 (in house check Oct-20) Function	Oct-23 Oct-23	

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.
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Description of the AM1D probe

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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).

- 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 BB
Serial No	3104

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	
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Calibration data

Connector rotation angle	(in DASY system)	345.2 °	+/- 3.6 ° (k=2)
Sensor angle	(in DASY system)	-0.30 °	+/- 0.5 ° (k=2)
Sensitivity at 1 kHz	(in DASY system)	0.00784 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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Sporton Client

Certificate No: DAE4-699_Feb21

Accreditation No.: SCS 0108

	DAE4 - SD 000 D0	1 BO SN: 600			
Object	DAE4 - 50 000 DI	- UU - ON. 033			
Calibration procedure(s)	QA CAL-06.v30 Calibration procedure for the data acquisition electronics (DAE)				
Calibration date:	February 16, 2021				
		nal standards, which realize the physical uni bability are given on the following pages an			
All calibrations have been condu	cted in the closed laboratory	facility: environment temperature (22 \pm 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	07-Sep-20 (No:28647)	Sep-21		
Secondary Standards	ID #	Check Date (in house)	Scheduled Check		
		Check Date (in house) 07-Jan-21 (in house check)	Scheduled Check In house check: Jan-22		
Secondary Standards Auto DAE Calibration Unit Calibrator Box V2.1	SE UWS 053 AA 1001				
Auto DAE Calibration Unit	SE UWS 053 AA 1001	07-Jan-21 (in house check)	In house check: Jan-22		
Auto DAE Calibration Unit	SE UWS 053 AA 1001	07-Jan-21 (in house check)	In house check: Jan-22		
Auto DAE Calibration Unit	SE UWS 053 AA 1001 SE UMS 006 AA 1002	07-Jan-21 (in house check) 07-Jan-21 (in house check)	In house check: Jan-22 In house check: Jan-22 Signature		
Auto DAE Calibration Unit Calibrator Box V2.1	SE UWS 053 AA 1001 SE UMS 006 AA 1002 Name	07-Jan-21 (in house check) 07-Jan-21 (in house check) Function	In house check: Jan-22 In house check: Jan-22		

Calibration Laboratory of

Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





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Glossarv

DAE data acquisition electronics information used in DASY system to align probe sensor X to the robot Connector angle coordinate system.

- 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.

DC Voltage Measurement

A/D - Converter Resolution nominal
High Range:1LSB =6.1μV ,full range =-100...+300 mVLow Range:1LSB =61nV ,full range =-1.....+3mVDASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	x	Y	Z
High Range	404.698 ± 0.02% (k=2)	$403.331 \pm 0.02\%$ (k=2)	404.500 ± 0.02% (k=2)
Low Range	3.93322 ± 1.50% (k=2)	3.94917 ± 1.50% (k=2)	3.97686 ± 1.50% (k=2)

Connector Angle

Connector Angle to be used in DASY system	170.0 ° ± 1 °
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Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

High Range	Reading (µV)	Difference (µV)	e (μV) Error (%)	
Channel X + Input	199987.98	-2.79	-0.00	
Channel X + Input	20000.61	-0.79	-0.00	
Channel X - Input	-19997.00	4.51	-0.02	
Channel Y + Input	199987.66	-3.18	-0.00	
Channel Y + Input	19999.26	-2.15	-0.01	
Channel Y - Input	-20000.61	0.98	-0.00	
Channel Z + Input	199987.69	-2.80	-0.00	
Channel Z + Input	19997.98	-3.40	-0.02	
Channel Z - Input	-19999.60	1.99	-0.01	

Low Range		Reading (µV)	Difference (µV)	Error (%)
Channel X + II	nput	2001.02	0.12	0.01
Channel X + II	nput	200.79	-0.50	-0.25
Channel X - In	put	-198.40	0.14	-0.07
Channel Y + I	nput	2001.51	0.67	0.03
Channel Y + I	nput	201.26	0.03	0.02
Channel Y - Ir	put	-198.52	0.03	-0.01
Channel Z + I	nput	2001.27	0.41	0.02
Channel Z + I	nput	200.87	-0.37	-0.18
Channel Z - Ir	put	-199.69	-1.10	0.56

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	-2.78	-4.10
	- 200	4.38	2.84
Channel Y	200	22.58	22.65
	- 200	-24.12	-23.77
Channel Z	200	7.20	7.46
	- 200	-9.22	-9.24

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	-	-1.76	-3.19
Channel Y	200	7.37	-	-1.62
Channel Z	200	4.11	5.36	-

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	16103	15078
Channel Y	16420	14959
Channel Z	16290	15287

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	0.42	-0.83	1.55	0.48
Channel Y	-0.50	-1.42	0.63	0.44
Channel Z	-0.48	-1.69	0.38	0.42

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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Client Sporton

Certificate No: DAE4-854_Apr21

Accreditation No.: SCS 0108

CALIBRATION CERTIFICATE

Object	DAE4 - SD 000 D	04 BM - SN: 854			
Calibration procedure(s)	QA CAL-06.v30 Calibration procedure for the data acquisition electronics (DAE)				
Calibration date:	April 08, 2021				
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)					
	Les				
Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration		
Keithley Multimeter Type 2001	SN: 0810278	07-Sep-20 (No:28647)	Sep-21		
Secondary Standards	ID #	Check Date (in house)	Scheduled Check		
Auto DAE Calibration Unit	SE UWS 053 AA 1001		In house check: Jan-22		
Calibrator Box V2.1	SE UMS 006 AA 1002	07-Jan-21 (in house check)	In house check: Jan-22		
	Name	Function	Signature		
Calibrated by:	Dominique Steffen	Laboratory Technician	ll		
Approved by:	Sven Kühn	Deputy Manager	i.V. BALLING		
This calibration certificate shall not	be reproduced except in f	ull without written approval of the laboratory.	Issued: April 8, 2021		

Calibration Laboratory of

Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland



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Glossary

DAE Connector angle data acquisition electronics information used in DASY system to align probe sensor X to the robot coordinate system.

- 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.

DC Voltage Measurement A/D - Converter Resolution nominal

High Range:	1LSB = 1LSB =	6.1μV ,		-100+300 mV	
Low Range:		61nV ,		-1+3mV	
DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec					

Calibration Factors	x	Y	Z
High Range	404.903 ± 0.02% (k=2)	404.698 ± 0.02% (k=2)	405.777 ± 0.02% (k=2)
Low Range	3.97031 ± 1.50% (k=2)	3.94832 ± 1.50% (k=2)	3.95183 ± 1.50% (k=2)

Connector Angle

Connector Angle to be used in DASY system	324.5 ° ± 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	199991.52	0.27	0.00
Channel X	+ Input	20000.83	-0.79	-0.00
Channel X	- Input	-19998.38	3.05	-0.02
Channel Y	+ Input	199987.06	-4.19	-0.00
Channel Y	+ Input	19999.24	-2.33	-0.01
Channel Y	- Input	-20000.59	0.85	-0.00
Channel Z	+ Input	199990.77	-0.82	-0.00
Channel Z	+ Input	19998.35	-3.16	-0.02
Channel Z	- Input	-20001.91	-0.34	0.00

Low Range		Reading (µV)	Difference (µV)	Error (%)
Channel X	+ Input	2001.00	0.03	0.00
Channel X	+ Input	201.68	0.49	0.25
Channel X	- Input	-198.34	0.22	-0.11
Channel Y	+ Input	2000.81	-0.09	-0.00
Channel Y	+ Input	200.77	-0.33	-0.17
Channel Y	- Input	-198.98	-0.30	0.15
Channel Z	+ Input	2001.00	0.08	0.00
Channel Z	+ Input	200.35	-0.80	-0.40
Channel Z	- Input	-199.82	-1.22	0.61

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	-16.01	-17.54
	- 200	18.92	17.56
Channel Y	200	-7.65	-8.41
	- 200	7.29	7.07
Channel Z	200	23.56	23.40
	- 200	-26.20	-26.42

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	-	2.74	-2.18
Channel Y	200	7.01	-	4.35
Channel Z	200	8.50	5.26	-

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	16145	16506
Channel Y	15972	16934
Channel Z	15810	15958

5. Input Offset Measurement

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

	Average (μV)	min. Offset (μV)	max. Offset (μV)	Std. Deviation (μV)
Channel X	0.74	-0.13	1.95	0.42
Channel Y	0.10	-0.95	1.54	0.40
Channel Z	-0.35	-1.16	1.08	0.35

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