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Appendix B - DAE & Probe Calibration Certificate

			Swiss Calibration Service
		to the EA	n No.: SCS 0108
			o: DAE4-547_Mar22
CALIBRATION	CERTIFICATE		
Object	DAE4 - SD 000 D	04 BM - SN: 547	
Calibration procedure(s)	QA CAL-06.v30 Calibration proced	dure for the data acquisition elec	ctronics (DAE)
Calibration date:	March 23, 2022		
Calibration Equipment used (M& Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration
Keithley Multimeter Type 2001	SN: 0810278	31-Aug-21 (No:31368)	Aug-22
	D #	Check Date (in house)	The fact the second second
Secondary Standards			Scheduled Check
Auto DAE Calibration Unit		24-Jan-22 (in house check) 24-Jan-22 (in house check)	Scheduled Check In house check: Jan-23 In house check: Jan-23
Secondary Standards Auto DAE Calibration Unit Calibrator Box V2.1		24-Jan-22 (in house check)	In house check: Jan-23 In house check: Jan-23 Signature
Auto DAE Calibration Unit Calibrator Box V2.1	SE UMS 006 AA 1002	24-Jan-22 (in house check) 24-Jan-22 (in house check)	In house check: Jan-23 In house check: Jan-23 Signature
Auto DAE Calibration Unit	SE UMS 006 AA 1002	24-Jan-22 (in house check) 24-Jan-22 (in house check) Function	In house check: Jan-23 In house check: Jan-23

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



S Schweizerischer Kalibrierdienst Service suisse d'étalonnage C Servizio svizzero di taratura S Swiss Calibration Service

Accreditation No.: SCS 0108

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Accredited by the Swiss Accreditation Service (SAS)

Glossary

DAE Connector angle

data acquisition electronics 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 ٠ 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.

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DC Voltage Measurement

High Range:	1LSB =	6.1µV .	full range =	-100+300 mV
Low Range:	1LSB =	61nV	full range =	-1+3mV

Calibration Factors	X	Y	z
High Range	403.263 ± 0.02% (k=2)	403.168 ± 0.02% (k=2)	402.814 ± 0.02% (k=2)
Low Range	3.95496 ± 1.50% (k=2)	3.90574 ± 1.50% (k=2)	3.96252 ± 1.50% (k=2)

Connector Angle

Connector Angle to be used in DASY system	91.0°±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	200028.90	-2.05	-0.00
Channel X + Input	20008.26	2.76	0.01
Channel X - Input	-20002.14	3.24	-0,02
Channel Y + Input	200027.70	-2.88	-0.00
Channel Y + Input	20002.66	-2.66	-0.01
Channel Y - Input	-20005.95	-0.47	0.00
Channel Z + Input	200028.95	-2.21	-0.00
Channel Z + Input	20006,74	1.45	0.01
Channel Z - Input	-20004.25	1.30	-0.01

Low Range	Reading (µV)	Difference (µV)	Error (%)
Channel X + Input	2001.43	0.29	0,01
Channel X + Input	201.13	-0.00	-0.00
Channel X - Input	-198.80	0.04	-0.02
Channel Y + Input	2001,21	0.20	0.01
Channel Y + Input	200.72	-0.23	-0.11
Channel Y - Input	-199.87	-0.95	0.48
Channel Z + Input	2000.92	-0.07	-0.00
Channel Z + Input	200.39	-0.58	-0.29
Channel Z - Input	-199.79	-0.75	0.38

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	-2.99	-5.04
	- 200	5.30	3.82
Channel Y	200	-1.16	-1.29
1	- 200	-0.72	-0.92
Channel Z	200	5.69	5,56
1.000	- 200	-7.06	-7.99

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		2.57	-2.07
Channel Y	200	9.72		3.76
Channel Z	200	5.10	7.37	19

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4. AD-Converter Values with inputs shorted

DASY measurement	parameters: Auto Z	ero Time: 3 sec;	Measuring tim	e: 3 sec

	High Range (LSB)	Low Range (LSB) 14774	
Channel X	16358		
Channel Y	16463	15455	
Channel Z	16085	17195	

5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec Input 10MΩ

1-2-1	Average (µV)	min. Offset (µV)	max. Offset (µV)	Std. Deviation (µV)
Channel X	-0.14	-1.02	0,61	0.28
Channel Y	-0.81	-0.92	0.40	0.31
Channel Z	0.26	-1.17	1.50	0.46

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)

Alarm Level (VDC)		
+7.9		
-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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Engineering AG Zeughausstrasse 43, 8004 Zu	ory of		Schweizerischer Kalibrierdienst Service suisse d'étalonnage Servizio svizzero di taratura Swiss Calibration Service
Accredited by the Swiss Accred The Swiss Accreditation Serv Multilateral Agreement for the	vice is one of the signatories	to the EA	creditation No.: SCS 0108
Client SGS (Auden)			EX3-3938 Jan22
Consider Strength		a second and	EX3-3930_Janzz
CALIBRATION	CERTIFICATE		
Object	EX3DV4 - SN:393	18	
Calibration procedure(s)		A CAL-14.v6, QA CAL-23.v5, QA lure for dosimetric E-field probes	CAL-25.v7
Calibration date:	January 25, 2022		
This calibration certificate docu The measurements and the un	certainties with confidence pro	bability are given on the following pages and	are part of the certificate.
The measurements and the un All calibrations have been cond	certainties with confidence pro sucted in the closed laboratory	bability are given on the following pages and facility: environment temperature (22 \pm 3)°C r	
The measurements and the un All calibrations have been conc Calibration Equipment used (M	certainties with confidence pro fucted in the closed laboratory I&TE critical for calibration)	facility: environment temperature (22 \pm 3)°C a	and humidity < 70%.
The measurements and the un All calibrations have been conc Calibration Equipment used (M Primary Standards	certainties with confidence pro ducted in the closed laboratory I&TE critical for calibration)	facility: environment temperature (22 ± 3)°C a	and humidity < 70%.
The measurements and the un All calibrations have been conc Calibration Equipment used (M Primary Standards Power meter NRP	certainties with confidence pro fucted in the closed laboratory I&TE critical for calibration)	facility: environment temperature (22 ± 3)°C / Cal Date (Certificate No.) 09-Apr-21 (No. 217-03291/03292)	and humidity < 70%. Scheduled Calibration Apr-22
The measurements and the un All calibrations have been conc calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-Z91	certainties with confidence pro ducted in the closed laboratory I&TE critical for calibration) ID SN: 104778 SN: 103244	facility: environment temperature (22 ± 3)°C / Cal Date (Certificate No.) 09-Apr-21 (No. 217-03291/03292) 09-Apr-21 (No. 217-03291)	and humidity < 70%. Scheduled Calibration Apr-22 Apr-22
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Glossary: tissue simulating liquid NORMx,y,z sensitivity in free space sensitivity in TSL / NORMx,y,z ConvF diode compression point crest factor (1/duty_cycle) of the RF signal modulation dependent linearization parameters A, B, C, D φ rotation around probe axis Polarization () Polarization 9 3 rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., 9 = 0 is normal to probe axis Connector Angle information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards: a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices -Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020

b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- NORMx, y.z: Assessed for E-field polarization 9 = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz; R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E²-field uncertainty inside TSL (see below *ConvF*).
- $NORM(N, y, z = NORM, y, z^{-1} frequency_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included$ in the stated uncertainty of ConvF.
- DCPx, y, z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW
- signal (no uncertainty required). DCP does not depend on frequency nor media. PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal
- characteristics
- Axy, z; Bxy, z; Cx, y, z; Dx, y, z; VRx, y, z; A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor
- media. VR is the maximum calibration range expressed in RMS voltage across the diode. ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f < 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which spice used to be used as assessment of the parameters applied for boundary compensation (alpha, depth) of which spicel uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx, $y_x = ConvF$ whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from \pm 50 MHz to \pm 100 MHz
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset. The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required)

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EX3DV4 - SN:3938

January 25, 2022

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3938

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (µV/(V/m) ²) ^A	0.51	0.57	0.33	± 10.1 %
DCP (mV) ^B	103.7	101.2	104.2	

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dBõV	С	D dB	VR mV	Max dev.	Unc ^E (k=2)
0	CW	X	0.0	0.0	1.0	0.00	132.8	±3.3 %	±4.7 %
		Y	0.0	0.0	1.0	-	129.3		
		Z	0.0	0.0	1.0		144.0		

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%.

^A The uncertainties of Norm X,Y Z do not affect the E²-field uncertainty inside TSL (see Page 5). ⁸ Uncertainty is determined using the max, deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

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EX3DV4- SN:3938

January 25, 2022

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3938

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	150
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

Note: Measurement distance from surface can be increased to 3-4 mm for an Area Scan job.

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EX3DV4- SN 3938

January 25, 2022

f (MHz) ^c	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	41.9	0.89	9,60	9.60	9.60	0.60	0.85	± 12.0 %
835	41.5	0.90	9.29	9.29	9.29	0.63	0.80	± 12.0 9
900	41.5	0.97	9.17	9.17	9.17	0.54	0.80	± 12.0 %
1450	40.5	1.20	8.67	8.67	8.67	0.46	0.80	± 12.0 %
1750	40.1	1.37	8.33	8.33	8.33	0.39	0.80	± 12.0 %
1900	40,0	1.40	7.92	7.92	7.92	0.40	0.80	± 12.0 %
2000	40.0	1.40	7.77	7.77	7.77	0.36	0.80	± 12.0 9
2300	39.5	1.67	7.73	7.73	7.73	0.33	0.88	± 12.0 %
2450	39.2	1.80	7.39	7.39	7.39	0.42	0.80	± 12.0 %
2600	39.0	1.96	7.15	7.15	7,15	0.43	0.80	± 12.0 9
3300	38.2	2.71	7.00	7.00	7.00	0.35	1.30	± 13.1 %
3500	37.9	2.91	6.85	6.85	6.85	0.35	1.30	± 13.1 %
3700	37.7	3.12	6.70	6.70	6.70	0.35	1.30	± 13.1 %
3900	37.5	3.32	6.55	6.55	6.55	0.40	1.60	± 13.1 %
4100	37.2	3.53	6.40	6.40	6.40	0.40	1.60	± 13.1 %
4200	37.1	3.63	6.35	6.35	6.35	0.35	1.60	± 13.1 %
4400	36.9	3.84	6.22	6.22	6.22	0.35	1.60	± 13.1 9
4600	36.7	4.04	6.16	6.16	6.16	0.40	1.60	± 13.1 9
4800	36.4	4.25	6.10	6.10	6.10	0.40	1.80	± 13.1 %
4950	36.3	4.40	5.90	5.90	5.90	0.40	1.80	± 13.1 %
5250	35.9	4.71	5.05	5.05	5.05	0.40	1.80	± 13.1 %
5600	35.5	5.07	4.60	4.60	4.60	0.40	1.80	± 13.1 %
5750	35.4	5.22	4.65	4.65	4.65	0.40	1.80	± 13.1 %

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3938

1

^C Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), este its restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessed at a dhuz and the uncertainty for the indicated frequency band. Frequency validity of ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 100 MHz. The validity of tissue parameters (*i*: and *i*) is restricted to ± 10% Hz is splied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (*i*: and *i*) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty is used parameters. ^C Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is advars less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

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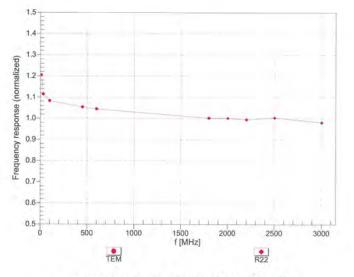


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EX3DV4- SN:3938

January 25, 2022

Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)



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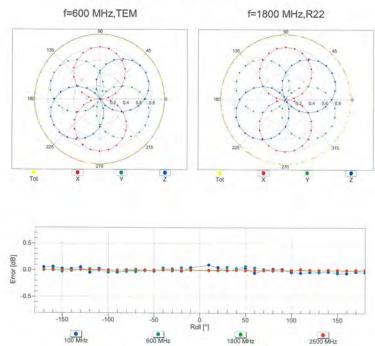
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January 25, 2022



Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$

Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

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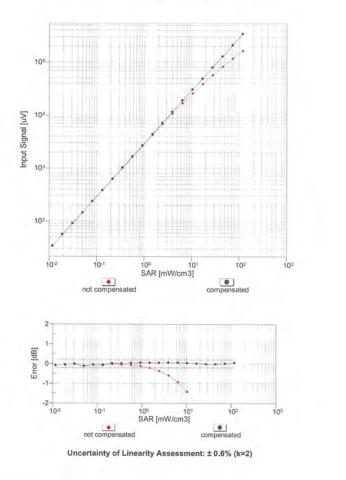


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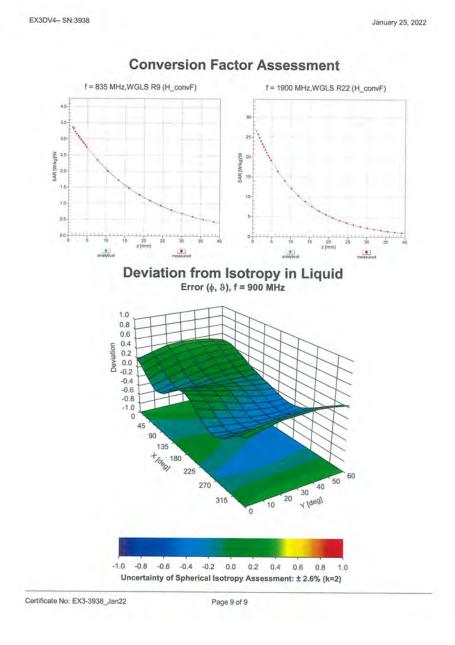
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