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Appendix B - DAE & Probe Calibration Certificate

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





S Schweizerischer Kalibrierdienst Servizio svizzero di taratura

Swiss Calibration Service

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SGS Taoyuan City

Certificate No: DAE4-1336_Aug24

Accreditation No.: SCS 0108

DAE4 - SD 000 D	04 BM - SN: 1336	
QA CAL-06.v30	ture for the data acquisition close	tropics (DAE)
Calibration proced	dure for the data acquisition elect	ITOTICS (DAE)
August 15, 2024		
ted in the closed laboratory	facility: environment temperature (22 ± 3)°C	and humidity < 70%.
TE critical for calibration)		
ID#	Cal Date (Certificate No.)	Scheduled Calibration
SN: 0810278	29-Aug-23 (No:37421)	Aug-24
ID#	Check Date (in house)	Scheduled Check
SE UWS 053 AA 1001	23-Jan-24 (in house check)	In house check: Jan-25
SE UMS 006 AA 1002	23-Jan-24 (in house check)	In house check: Jan-25
Name	Function	Signature
Dominique Steffen	Laboratory Technician	les
Sven Kühn	Technical Manager	SIL
	August 15, 2024 ants the traceability to national ratinties with confidence protected in the closed laboratory. E critical for calibration) ID # SN: 0810278 ID # SE UWS 053 AA 1001 SE UMS 006 AA 1002	August 15, 2024 ants the traceability to national standards, which realize the physical unitatanties with confidence probability are given on the following pages and ted in the closed laboratory facility: environment temperature (22 ± 3)°C (E critical for calibration) ID #

Certificate No: DAE4-1336_Aug24

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Calibration Laboratory of Schmid & Partner

Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





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

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Glossarv

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
 - 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
 - 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

A/D - Converter Resolution nominal High Range: 1LSB = Low Range: 1LSB = 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	Y	Z
High Range	403.385 ± 0.02% (k=2)	403.688 ± 0.02% (k=2)	403.173 ± 0.02% (k=2)
Low Range	3.94710 ± 1.50% (k=2)	3.98744 ± 1.50% (k=2)	3.99783 ± 1.50% (k=2)

Connector Angle

Connector Angle to be used in DASY system	347.0 ° ± 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	199993.40	-3.32	-0.00
Channel X + Input	20002.75	-0.08	-0.00
Channel X - Input	-20000.83	1.27	-0.01
Channel Y + Input	199996.59	-0.20	-0.00
Channel Y + Input	20002.16	-0.50	-0.00
Channel Y - Input	-20003.57	-1.38	0.01
Channel Z + Input	199992.93	-4.01	-0.00
Channel Z + Input	20000.80	-1.98	-0.01
Channel Z - Input	-20003.27	-1.16	0.01

Low Range	Reading (μV)	Difference (μV)	Error (%)
Channel X + Input	2001.91	0.48	0.02
Channel X + Input	202.02	0.49	0.24
Channel X - Input	-197.51	0.63	-0.32
Channel Y + Input	2001.43	0.15	0.01
Channel Y + Input	201.18	-0.35	-0.17
Channel Y - Input	-198.98	-0.73	0.37
Channel Z + Input	2001.46	0.19	0.01
Channel Z + Input	200.39	-0.98	-0.49
Channel Z - Input	-199.35	-1.02	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	6.27	5.09
	- 200	-3.86	-5.38
Channel Y	200	-3.53	-3.83
	- 200	2.37	2.20
Channel Z	200	23.15	22.73
	- 200	-25.17	-25.43

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	-	5.49	-1.53
Channel Y	200	8.53		7.15
Channel Z	200	8.74	6.82	-

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4. AD-Converter Values with inputs shorted

3 sec: Measuring time: 3 sec

	High Range (LSB)	Low Range (LSB)
Channel X	15670	15940
Channel Y	15916	16687
Channel Z	15842	14277

5. Input Offset Measurement

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

	Average (μV)	min. Offset (μV)	max. Offset (μV)	Std. Deviation (µV)
Channel X	0.83	-0.43	1.57	0.34
Channel Y	-0.42	-1.30	0.38	0.32
Channel Z	-1.14	-1.95	0.38	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

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Client

SGS Taoyuan City Certificate No.

EX-3770_May24

CALIBRATION CERTIFICATE

Object

EX3DV4 - SN:3770

Calibration procedure(s)

QA CAL-01.v10, QA CAL-12.v10, QA CAL-14.v7, QA CAL-23.v6,

OA CAL -25 v8

Calibration procedure for dosimetric E-field probes

Calibration date

May 24, 2024

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) ℃ and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

ID	Cal Date (Certificate No.)	Scheduled Calibration
SN: 104778	26-Mar-24 (No. 217-04036/04037)	Mar-25
SN: 103244	26-Mar-24 (No. 217-04036)	Mar-25
SN: 1249	05-Oct-23 (OCP-DAK3.5-1249_Oct23)	Oct-24
SN: 1016	05-Oct-23 (OCP-DAK12-1016_Oct23)	Oct-24
SN: CC2552 (20x)	26-Mar-24 (No. 217-04046)	Mar-25
SN: 660	23-Feb-24 (No. DAE4-660 Feb24)	Feb-25
SN: 7349	03-Nov-23 (No. EX3-7349 Nov23)	Nov-24
	SN: 104778 SN: 103244 SN: 1249 SN: 1016 SN: CC2552 (20x) SN: 660	SN: 104778 26-Mar-24 (No. 217-04036)04037) SN: 103244 26-Mar-24 (No. 217-04036) SN: 1249 05-Oct-23 (OP-DAK3-5-1249 Oct23) SN: 1016 05-Oct-23 (OP-DAK12-1016 Oct23) SN: CC2552 (20x) 26-Mar-24 (No. 217-04046) SN: 660 23-Feb-24 (No. DAE4-660 Feb24)

Secondary Standards ID		Check Date (in house)	Scheduled Check		
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-22)	In house check: Jun-24		
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-22)	In house check: Jun-24		
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-22)	In house check: Jun-24		
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-22)	In house check: Jun-24		
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24		

Name Jeffrey Katzman Function

Laboratory Technician

Calibrated by Approved by

Sven Kühn

Technical Manager

Issued: May 27, 2024

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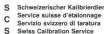
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Glossary

tissue simulating liquid tissub simulating inquo sensitivity in res space sensitivity in TSL / NORMx,y,z diode compression point crest factor (1/duty_cycle) of the RF signal modulation dependent linearization parameters NORMx,y,z ConvF DCP CF

A. B. C. D

Polarization φ Polarization ϑ φ rotation around probe axis θ rotation around probe axis θ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\theta=0$ 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 θ = 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(f)x,y,z'=NORMx,y,z * 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
- . DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal. 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
- Ax,y,z; Bx,y,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 ≤ 800MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical 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,yz *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 ±50 MHz to ±100 MHz.
- · Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis).
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

Certificate No: EX-3770 May24 Page 2 of 9

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EX3DV4 - SN:3770

May 24, 2024

Parameters of Probe: EX3DV4 - SN:3770

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k = 2)
Norm $(\mu V/(V/m)^2)$ A	0.29	0.31	0.35	±10.1%
DCP (mV) B	104.9	103.8	107.1	±4.7%

Calibration Results for Modulation Response

UID	Communication System Name		A dB	$dB\sqrt{\mu V}$	С	D dB	VR mV	Max dev.	Max Unc ^E k = 2
0	CW	X	0.00	0.00	1.00	0.00	159.9	±2.5%	±4.7%
		Y	0.00	0.00	1.00		163.6		
		Z	0.00	0.00	1.00		155.3		

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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A The uncertainties of Norm X,Y,Z do not affect the E²-field uncertainty inside TSL (see Page 5).
B Unearization parameter uncertainty for maximum specified field strength.
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:3770 May 24, 2024

Parameters of Probe: EX3DV4 - SN:3770

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle	70.0°
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.

Certificate No: EX-3770_May24 Page 4 c

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Parameters of Probe: EX3DV4 - SN:3770

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity ^F (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc ^H (k = 2)
750	41.9	0.89	9.56	9.56	9.56	0.42	0.80	±11.0%
835	41.5	0.90	9.47	9.47	9.47	0.46	0.80	±11.0%
900	41.5	0.97	9.18	9.18	9.18	0.48	0.80	±11.0%
1450	40.5	1.20	8.38	8.38	8.38	0.41	0.80	±11.0%
1750	40.1	1.37	8.40	8.40	8.40	0.30	0.86	±11.0%
1900	40.0	1.40	7.96	7.96	7.96	0.28	0.86	±11.0%
2000	40.0	1.40	7.86	7.86	7.86	0.13	0.86	±11.0%
2300	39.5	1.67	7.71	7.71	7.71	0.24	0.90	±11.0%
2450	39.2	1.80	7.62	7.62	7.62	0.25	0.90	±11.0%
2600	39.0	1.96	7.42	7.42	7.42	0.22	0.90	±11.0%
3300	38.2	2.71	6.84	6.84	6.84	0.35	1.30	±13.1%
3500	37.9	2.91	6.78	6.78	6.78	0.35	1.30	±13.1%
3700	37.7	3.12	6.77	6.77	6.77	0.35	1.30	±13.1%
3900	37.5	3.32	6.37	6.37	6.37	0.40	1.60	±13.1%
4100	37.2	3.53	6.24	6.24	6.24	0.40	1.60	±13.1%
4200	37.1	3.63	6.21	6.21	6.21	0.40	1.70	±13.1%
4400	36.9	3.84	6.15	6.15	6.15	0.40	1.70	±13.1%
4600	36.7	4.04	6.12	6.12	6.12	0.40	1.70	±13.1%
4800	36.4	4.25	5.99	5.99	5.99	0.40	1.80	±13.1%
4950	36.3	4.40	5.87	5.87	5.87	0.40	1.80	±13.1%
5250	35.9	4.71	5.42	5.42	5.42	0.40	1.80	±13.1%
5600	35.5	5.07	4.83	4.83	4.83	0.40	1.80	±13.1%
5750	35.4	5.22	4.97	4.97	4.97	0.40	1.80	±13.1%
5850	35.2	5.32	4.82	4.82	4.82	0.40	1.80	±13.1%

C Frequency validity above 300 MHz of ±100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ±50 MHz. The uncertainty is the RSS of the CornF 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 CornF assessments at 30, 46, 128, 150 and 220 MHz respectively. Validity of CornF assessed at 6 MHz is 4–9 MHz, and CornF assessed at 13 MHz is 9–19 MHz. Above 5 GHz frequency validity can be extended to ±10 MHz.

Fine probes are calibrated using issues elimitating liquids (TSI), that deviate for cand or by less than ±5% from the target values (typically better than ±3%) and are valid for TSI. with deviations of up to ±10% if SAR correction is applied.

A pha/ba/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always 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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The stated uncertainty is the total calibration uncertainty (k = 2) of Norm-ConvF. Therefore, The uncertainty stated is equivalent to the uncertainty onent with the symbol CF in Table 9 of IEC/IEEE 62209-1528:2020.

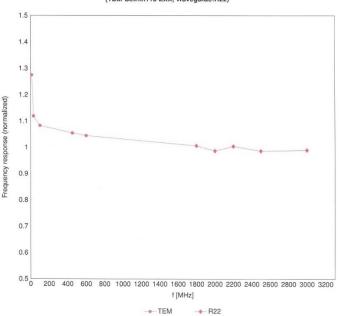


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Frequency Response of E-Field

(TEM-Cell:ifi110 EXX, Waveguide:R22)



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

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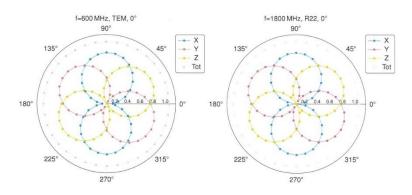
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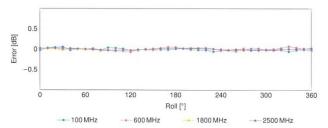


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Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$





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

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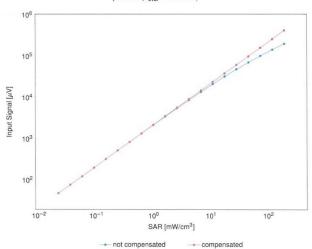
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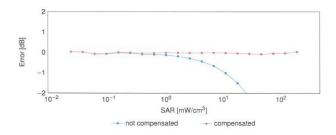
EX3DV4 - SN:3770

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Dynamic Range f(SAR_{head})

(TEM cell, $f_{eval} = 1900\,\text{MHz})$





Uncertainty of Linearity Assessment: $\pm 0.6\%$ (k=2)

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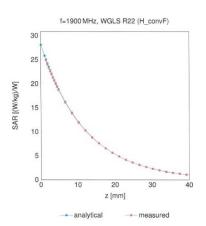
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Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ , θ), f = 900 MHz 0.8 0.6 40 -0.4 -0.8 Y [deg] 180 270 315 X [dea] -0.4 -0.2 0.2 Uncertainty of Spherical Isotropy Assessment: ±2.6% (k=2)

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- End of report -

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