

Appendix B - DAE & Probe Calibration Certificate

credited by the Swiss Accredita e Swiss Accreditation Service Itilateral Agreement for the re	e is one of the signatories	to the EA	No.: SCS 0108
ient SGS-TW (Aude	en)	Certificate No	: DAE4-1336_Aug20
	DAE4 - SD 000 DO		
Calibration procedure(s)	QA CAL-06.v30 Calibration proced	lure for the data acquisition elect	tronics (DAE)
Calibration date:	August 13, 2020		
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Schweizerischer Kalibrierdienst S Service suisse d'étalonnage С Servizio svizzero di taratura S Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS) The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

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 . 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 ٠ 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	Х	Y	Z
High Range	403.373 ± 0.02% (k=2)	403.675 ± 0.02% (k=2)	403.157 ± 0.02% (k=2)
Low Range	3.95195 ± 1.50% (k=2)	3.98791 ± 1.50% (k=2)	3.99627 ± 1.50% (k=2)

Connector Angle

Connector Angle to be used in DASY system	339.0°±1°
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High Range	Reading (µV)	Difference (µV)	Error (%)
Channel X + Input	200038.51	1.81	0.00
Channel X + Input	20007.18	1.22	0.01
Channel X - Input	-20005.20	0,72	-0.00
Channel Y + Input	200036.89	0,39	0.00
Channel Y + Input	20004.92	-0.88	-0.00
Channel Y - Input	-20007.27	-1.25	0.01
Channel Z + Input	200038.49	2.22	0.00
Channel Z + Input	20006.13	0.32	0.00
Channel Z - Input	-20007.34	-1.29	0.01

Appendix (Additional assessments outside the scope of SCS0108)

Difference (µV) Error (%) Low Range Reading (µV) -0.00 2001.38 -0.01 Channel X + Input -0.02 Channel X 201.37 -0.04 + Input -0.02 0.01 Channel X - Input -198.55 Channel Y + Input 2001.32 0.01 0,00 -0.48 Channel Y + Input 200.36 -0.97 0.52 Channel Y - Input -199.71 -1.04 -0.00 Channel Z + Input 2001.21 -0.06 -0.64 -0.32 Channel Z + Input 200.65 0.43 Channel Z - Input -199.52 -0.85

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	5,14	4.45
	- 200	-4.22	-5.45
Channel Y	200	-4.29	-4.17
	- 200	2.35	2.01
Channel Z	200	22.38	22.64
	- 200	-24.85	-24.58

3. Channel separation

	Input Voltage (mV)	Channel X (µV)	Channel Y (µV)	Channel Z (µV)
Channel X	200	11 04 14	4.88	-1.29
Channel Y	200	8.14		6.18
Channel Z	200	8.43	6.05	4

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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	15663	16348	
Channel Y	15906	15692	
Channel Z	15844	14523	

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	0.78	-0.03	1.45	0.34
Channel Y	-0.66	-2.18	1.28	0.41
Channel Z	-0.43	-1.19	0.51	0.34

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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lient SGS-TW (Aud	den)	Certificate No:	EX3-7509_Apr21
ALIBRATION	CERTIFICATE		
Object	EX3DV4 - SN:750	99	
Calibration procedure(s)		A CAL-14.v6, QA CAL-23.v5, QA lure for dosimetric E-field probes	CAL-25.v7
Calibration date:	April 26, 2021		
		bability are given on the following pages and facility: environment temperature (22 ± 3) °C z	
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Il calibrations have been cond alibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291 Power sensor NRP-291 Power sensor 20 dB Attenuator DAE4 Reference Probe ES3DV2 Recondary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A RE generator HP 8648C	Iucled in the closed laboratory IB TE critical for calibration) ID SN: 104778 SN: 103245 SN: 103245 SN: 022552 (20x) SN: 680 SN: 3013 ID SN: GB41293874 SN: 000110210	facility: environment temperature (22 ± 3)°C z Cal Date (Certificate No.) 09-Apr-21 (No. 217-03291/03292) 09-Apr-21 (No. 217-03291) 09-Apr-21 (No. 217-03292) 09-Apr-21 (No. 217-03292) 09-Apr-21 (No. 217-03292) 09-Apr-21 (No. 217-03292) 09-Apr-21 (No. 517-03292) 09-Apr-21 (No. 517-03292) 09-Apr-16 (No. ES3-3013 Dec20) Check Date (in house) 06-Apr-16 (in house check Jun-20)	And humidity < 70%. Scheduled Calibration Apr-22 Apr-22 Apr-22 Dec-21 Dec-21 Scheduled Check. In house check: Jun-22 In house check: Jun-22 In house check: Jun-22
All calibrations have been cond Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator DAE4 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards Power sensor E4412A Power sensor E4412A RF generator HP 8648C Network Analyzer E8358A	IUCted in the closed laboratory &TE critical for calibration) ID SN: 104778 SN: 103244 SN: 103244 SN: 103245 SN: 022552 (20x) SN: 660 SN: 3013 ID SN: GB41293874 SN: MY41498087 SN: WY41498087 SN: WY41498087 SN: US3642U01700	facility: environment temperature (22 ± 3)°C a Cal Date (Certificate No.) 09-Apr-21 (No. 217-03291/03292) 09-Apr-21 (No. 217-03291) 09-Apr-21 (No. 217-03291) 09-Apr-21 (No. 217-03292) 09-Apr-10 (No. DE4-660_Dec20) 30-Dec-20 (No. ES3-3013_Dec20) Check Date (in house) 06-Apr-16 (in house check Jun-20) 06-Apr-19 (in house check Jun-20)	In humidity < 70%. Scheduled Calibration Apr-22 Apr-22 Apr-22 Dec-21 Dec-21 Dec-21 Scheduled Check In house check: Jun-22 In house check: Jun-22 In house check: Jun-22 In house check: Jun-22
	Aucted in the closed laboratory &TE critical for calibration) ID SN: 104778 SN: 103244 SN: 103244 SN: 103245 SN: 062552 (20x) SN: 3013 ID SN: GB41293874 SN: MY41498087 SN: WY41498087 SN: WY41498087 SN: US3642U01700 SN: US3642U01700 SN: US41080477 Name	facility: environment temperature (22 ± 3)°C a Cal Date (Certificate No.) 09-Apr-21 (No. 217-03291/03292) 09-Apr-21 (No. 217-03291) 09-Apr-21 (No. 217-03291) 09-Apr-21 (No. 217-03293) 23-Dec-20 (No. DAE4-660_Dec20) 30-Dec-20 (No. ES3-3013_Dec20) Check Date (in house) 06-Apr-16 (in house check Jun-20) 06-Apr-16 (in house check Jun-20) 06-Apr-16 (in house check Jun-20) 04-Aug-99 (in house check Jun-20) 31-Mar-14 (in house check Jun-20) St-Mar-14 (in house check Jun-20) Check Date (in house check Jun-20) 04-Aug-99 (in house check Jun-20) 04-Aug-99 (in house check Jun-20) St-Mar-14 (in house check Jun-20) Function	Scheduled Calibration Apr-22 Apr-22 Apr-22 Dec-21 Dec-21 Scheduled Check In house check: Jun-22 In house check: Jun-22 In house check: Jun-22 In house check: Jun-22 In house check: Cal-22 In house check: Cal-21

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EX3DV4 - SN 7509

April 26, 2021

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7509

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm $(\mu V/(V/m)^2)^A$	0.59	0.63	0.69	± 10.1 %
DCP (mV) ⁸	105.0	104.2	103.1	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dBõV	C	D dB	WR mV	Unc ^E (k=2)
0	CW	X	0.0	0.0	1.0	0.00	139.5	±3.3 %
-		Y	0.0	0.0	10		140.4	
-		Z	0.0	0.0	10		129.2	

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%.

⁶ The uncertainlies of Norm X, Y, Z do not affect the E²-field unbertainty inside TSL (see Page 5).
⁹ Numerical linearization parameter: uncertainty not required.
⁹ 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:7509

April 26, 2021

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7509

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (")	-67.4
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 lob.

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EX3DV4-SN:7509

April 26, 2021

f (MHz) ^c	Relative Permittivity	Conductivity (S/m) ^F	ConvF X	ConvF Y	СолуF Z	Alpha ^G	Depth ⁰ (mm)	Unc (k=2)
750	41.9	0.89	10.29	10.29	10.29	0.42	0.96	± 12.0 %
835	41.5	0.90	9.97	9.97	9.97	0.48	0.85	± 12.0 %
900	41.5	0.97	9.78	9.78	9.78	0.31	1.11	± 12.0 %
1750	40.1	1,37	9.11	9.11	9.11	0,32	0.86	± 12.0 %
1900	40.0	1.40	8.74	8.74	8.74	0.38	0.86	± 12.0 %
2000	40.0	1.40	8.64	8.64	8.64	0.34	0,86	± 12.0 %
2300	39.5	1.67	8.31	8,31	8.31	0.28	0.90	± 12.0 %
2450	39.2	1.80	8.18	8.18	8.18	0.33	0.90	± 12.0 %
2600	39.0	1.96	7.97	7.97	7.97	0.38	0.90	± 12.0 %
3300	38.2	2.71	7.40	7.40	7.40	0.30	1.35	± 13.1 %
3500	37.9	2.91	7.26	7.26	7.26	0.35	1.35	± 13.1 %
3700	37.7	3.12	7.10	7.10	7.10	0.35	1.35	± 13.1 %
3900	37.5	3.32	6.85	6.85	6.85	0.40	1.60	± 13.1 %
4100	37.2	3.53	6.70	6.70	6.70	0.40	1.60	± 13.1 %
4200	37.1	3.63	6.60	6.60	6.60	0.40	1.60	± 13.1 %
4400	36.9	3.84	6.45	6.45	6.45	0.40	1.60	± 13.1 %
4600	36,7	4.04	6.39	6.39	6.39	0.40	1.60	± 13.1 %
4800	36.4	4.25	6.42	6.42	6.42	0.45	1.80	±13.1%
4950	36.3	4.40	6.21	6.21	6.21	0.40	1.80	± 13.1 %
5200	36.0	4.66	5.70	5.70	5.70	0.40	1.80	± 13.1 %
5300	35.9	4.76	5,45	5,45	5.45	0.40	1.80	± 13.1 %
5600	35.5	5.07	5.10	5.10	5.10	0.40	1.80	±.13.1 %
5800	35.3	5.27	5.20	5.20	5.20	0.40	1.80	± 13.1 %

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7509

^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 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 8 MHz is 4.9 MHz, and ConvF assessed at 11 MHz is 5.1 MHz. above 5 GHz frequency validity can be extended to ± 10% it liquid compensation formula is applied to measured SAR values. Af frequencies at 11 MHz is 5.1 MHz is 5.1 MHz. above 3 GHz, the validity of tissue parameters (i and i) can be relaxed to ± 10% it liquid compensation formula is applied to measured SAR values. Af frequencies at the state parameters (i and i) can be relaxed to ± 10% it liquid compensation formula is applied to the ConvF uncertainty for indicated target issue parameters.

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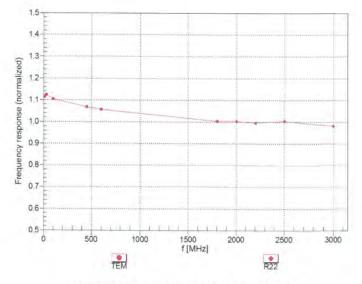


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April 26, 2021

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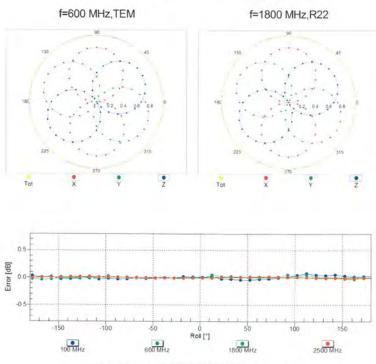
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Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$

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

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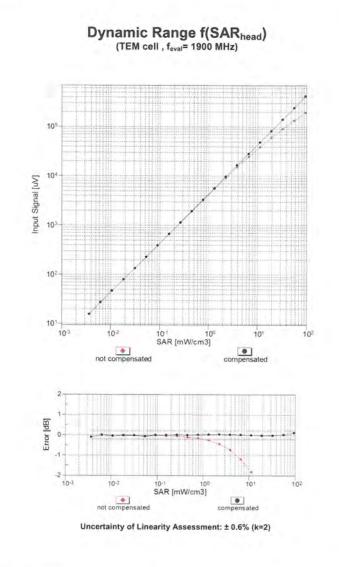
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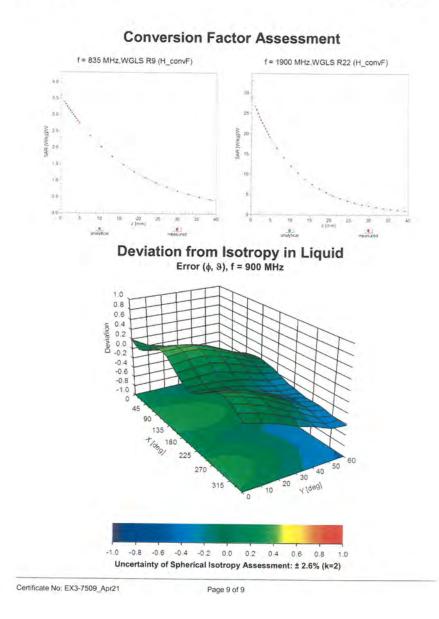
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