

Appendix B - DAE & Probe Calibration Certificate

Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zur	ory of		S Schweizerischer Kalibrierdienst C Service suisse d'étalonnage Servizio svizzero di taratura S wiss Calibration Service
Accredited by the Swiss Accred The Swiss Accreditation Serv Multilateral Agreement for the	rice is one of the signatorie	s to the EA	itation No.: SCS 0108
Client SGS-TW (Aud	den)	Certific	ate No: DAE4-877_Mar20
CALIBRATION	CERTIFICATI	E	
Object	DAE4 - SD 000 E	004 BN - SN: 877	
Calibration procedure(s)	QA CAL-06.v30 Calibration proce	dure for the data acquisition	electronics (DAE)
Calibration date:	March 17, 2020		
All calibrations have been condu	ucted in the closed laboratory	nal standards, which realize the physic obability are given on the following pag / facility: environment temperature (22.	es and are part of the certificate.
All calibrations have been condu	ucted in the closed laboratory	obability are given on the following pag	es and are part of the certificate. ± 3)°C and humidity < 70%.
All calibrations have been condu Calibration Equipment used (M&	ucted in the closed laboratory	obability are given on the following pag	es and are part of the certificate.
All calibrations have been condu Calibration Equipment used (M& Primary Standards Keithley Multimeter Type 2001 Secondary Standards	ucted in the closed laboratory ATE critical for calibration)	obability are given on the following pag / facility: environment temperature (22, <u>Cal Date (Certificate No.)</u> 03-Sep-19 (No:25949)	es and are part of the certificate. ± 3)°C and humidity < 70%. Scheduled Calibration Sep-20
All calibrations have been condu Calibration Equipment used (M& Primary Standards Keithley Multimeter Type 2001 Secondary Standards Auto DAC Calibration Unit	ID # SN: 0810278	obability are given on the following pag / facility: environment temperature (22.) Cal Date (Certificate No.) 03-Sep-19 (No:25949) Check Date (in house) 09-Jan-20 (in house check)	es and are part of the certificate. ± 3)°C and humidity < 70%. Scheduled Calibration
The measurements and the unc	Letal in the closed laboratory ITE critical for calibration) ID # SN: 0810278 D # SE UWS 053 AA 1001 SE UMS 006 AA 1002	obability are given on the following pag facility: environment temperature (22 : Cal Date (Certificate No.) 03-Sep-19 (No:25949) Check Date (in house) 09-Jan-20 (in house check) 09-Jan-20 (in house check)	es and are part of the certificate. ± 3)°C and humidity < 70%. <u>Scheduled Calibration</u> Sep-20 <u>Scheduled Check</u> In house check: Jan-21 In house check: Jan-21
All calibrations have been cond. Calibration Equipment used (M& Primary Standards Keithley Multimeter Type 2001 Secondary Standards Auto DAE Calibration Unit Calibrator Box V2.1	uzted in the closed laboratory TE critical for calibration) ID # SN: 0810278 ID # SE UWS 053 AA 1001	obability are given on the following pag / facility: environment temperature (22, Cal Date (Certificate No.) 03-Sep-19 (No:25949) Check Date (in house) 03-Jan-20 (in house check)	es and are part of the certificate. ± 3)°C and humidity < 70%. Scheduled Calibration Sep-20 Scheduled Check In house check: Jan-21
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All calibrations have been condu Calibration Equipment used (M& Primary Standards Keithley Multimeter Type 2001 Secondary Standards Auto DAC Calibration Unit	Varianes with contidence pr ucted in the closed laboratory ITE critical for calibration) ID # SN: 0810278 SE UWS 053 AA 1001 SE UWS 005 AA 1002 SE UMS 005 AA 1002	Cal Date (Certificate No.) Cal Date (Certificate No.) 03-Sep-19 (No:25949) Check Date (in house) 09-Jan-20 (in house check) 09-Jan-20 (in house check) 09-Jan-20 (in house check) Function	es and are part of the certificate. ± 3)°C and humidity < 70% Scheduled Catibration Sep-20 Scheduled Check In house check: Jan-21 In house check: Jan-21

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



S Service suisse d'étalonnage Servizio svizzero di taratura C 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 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

Cambration ractors		~		 -	
Calibration Factors		x	v	7	
High Range: Low Range: DASY measurement pa	1LSB = 1LSB = rameters: Aut	6.1μV , 61nV , to Zero Time: 3	full range =		
A/D - Converter Resolut	ion nominal				

High Range	405.010 ± 0.02% (k=2)	404.578 ± 0.02% (k=2)	405.015 ± 0.02% (k=2)
Low Range	3.98182 ± 1.50% (k=2)	3.98256 ± 1.50% (k=2)	3.97085 ± 1.50% (k=2)

Connector Angle

Connector Angle to be used in DASY system	324.5°±1°
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High Range	Reading (µV)	Difference (µV)	Error (%)
Channel X + Input	199994.99	1.01	0.00
Channel X + Input	20004.59	3.10	0.02
Channel X - Input	-19997.61	4.07	-0.02
Channel Y + Input	199995.27	1.92	0.00
Channel Y + Input	20003.49	2.17	0.01
Channel Y - Input	-20001.56	0.25	-0.00
Channel Z + Input	199996.44	2.69	0.00
Channel Z + Input	20003.98	2.57	0.01
Channel Z - Input	-20002.02	-0.26	0.00
		1	
Low Range	Reading (µV)	Difference (µV)	Error (%)
Channel X + Input	2000.98	-0.02	-0.00
Channel X + Input	201.04	-0.39	-0.19
Channel X - Input	-198.61	-0.21	0.11
Channel Y + Input	2001.45	0.50	0.02
Channel Y + Input	200.09	-1.21	-0.60
Channel Y - Input	-199.84	-1.30	0.65
Channel Z + Input	2001.94	0.99	0.05
Channel Z + Input	199.79	-1.52	-0.76
Channel Z - Input	-199.14	-0.53	0.27

Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

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	15.06	13.17
	- 200	-11.97	-13.80
Channel Y	200	-19.28	-19.62
	- 200	18.28	17.70
Channel Z	200	21.01	20.77
	- 200	-22.03	-22.76

3. Channel separation

	Input Voltage (mV)	Channel X (µV)	Channel Y (µV)	Channel Z (µV)
Channel X	200	-	0.57	-2.27
Channel Y	200	7.16		2.07
Channel Z	200	9.34	3.85	

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4. AD-Converter Values with inputs shorted

	High Range (LSB)	Low Range (LSB)
Channel X	16005	16461
Channel Y	15882	17075
Channel Z	15740	17303

5. Input Offset Measurement

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

nput romae	Average (µV)	min. Offset (µV)	max. Offset (µV)	Std. Deviation (µV)
Channel X	1.20	-0.28	3.03	0.57
Channel Y	0.18	-1.82	1.39	0.56
Channel Z	0.60	-1.35	2.37	0.80

6. Input Offset Current

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

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

ypical values	Alarm Level (VDC)
Supply (+ Vcc)	+7.5
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 (Auc	ien)	Certificate No:	EX3-7509_Mar20			
ALIBRATION	CEDTIEICATE					
ALIBRATION	CERTIFICATE					
Dbject	EX3DV4 - SN:750	9				
Calibration procedure(s)	QA CAL-01.v9, QA CAL-14.v5, QA CAL-23.v5, QA CAL-25.v7 Calibration procedure for dosimetric E-field probes					
Calibration date:	March 25, 2020					
		al standards, which realize the physical units				
The measurements and the unit	certainties with confidence pro	bability are given on the following pages and a	are part of the certificate.			
All calibrations have been cond	lucted in the closed laboratory	facility: environment temperature (22 + 3)°C a	and humidity < 70%			
All calibrations have been cond	lucted in the closed laboratory	facility: environment temperature (22 \pm 3) $^{\rm e}{\rm C}$ a	and humidity < 70%.			
		facility: environment temperature (22 \pm 3) $^{\circ}\mathrm{C}$ a	and humidity < 70%.			
		facility: environment temperature (22 \pm 3) $^{\rm s}{\rm C}$ a	and humidity < 70%.			
		facility: environment temperature (22 \pm 3)*C a	and humidity < 70%.			
Calibration Equipment used (M		facility: environment temperature (22 ± 3)*C a	and humidity < 70%.			
Calibration Equipment used (M Primary Standards	&TE critical for calibration)					
Calibration Equipment used (M Primary Standards Power meter NRP	&TE critical for calibration)	Cal Date (Certificate No.)	Scheduled Calibration			
Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-291	ID SN: 104778	Cal Date (Certificate No.) 03-Apr-19 (No. 217-02892/02893)	Scheduled Calibration Apr-20			
Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91	&TE critical for calibration)	Cal Date (Cerlificate No.) 03-Apr-19 (No. 217-02892/02893) 03-Apr-19 (No. 217-02892)	Scheduled Calibration Apr-20 Apr-20			
Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91	8/TE critical for calibration)	Cal Date (Certificate No.) 03-Apr-19 (No. 217-02882/02893) 03-Apr-19 (No. 217-02882) 03-Apr-19 (No. 217-02882)	Scheduled Calibration Apr-20 Apr-20 Apr-20			
Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator	BTE critical for calibration)	Cal Date (Certificate No.) 03-Apr-19 (No. 217-02892/02893) 03-Apr-19 (No. 217-02892) 03-Apr-19 (No. 217-02894)	Scheduled Calibration Apr-20 Apr-20 Apr-20 Apr-20			
Calibration Equipment used (M Primary Standards Power meter NRP- Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2	8.TE critical for calibration) ID SN: 104778 SN: 103244 SN: 103245 SN: 56277 (20x) SN: 660 SN: 3013	Cal Date (Certificate No.) 03-Apr-19 (No. 217-02892/02893) 03-Apr-19 (No. 217-02892) 03-Apr-19 (No. 217-02893) 04-Apr-19 (No. 217-02894) 27-Dec-19 (No. DAE4-860, Dac19) 31-Dec-19 (No. ES3-3013 Dec19)	Scheduled Calibration Apr-20 Apr-20 Apr-20 Apr-20 Dec-20 Dec-20 Dec-20			
Calibration Equipment used (M Primary Standards Power sensor NRP-291 Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Atternator DAE4 Reference Probe ES3DV2 Secondary Standards	ID ID SN: 104778 SN: 00244 SN: 103245 SN: 50246 SN: 55277 (20x) SN: 660 SN: 3013 ID	Cal Date (Certificate No.) 03-Apr-19 (No. 217-02892/02893) 03-Apr-19 (No. 217-02892) 03-Apr-19 (No. 217-02893) 04-Apr-19 (No. 217-02894) 27-Dec-19 (No. DE4-660. Dec19) 31-Dec-19 (No. ES3-3013. Dec19) Check Date (in house)	Scheduled Calibration Apr:20 Apr:20 Apr:20 Apr:20 Dec-20 Dec-20 Scheduled Check			
Calibration Equipment used (M Primary Standards Power sensor NRP-291 Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator DAE4 Reference Probe ES30V2 Secondary Standards Power meter E4419B	ID SN: 104778 SN: 104778 SN: 10244 SN: 10244 SN: 10245 SN: 55277 (20x) SN: 5607 SN: 3013 ID ID SN: 10641293874	Cal Date (Certificate No.) 03-Apr-19 (No. 217-02892/02893) 03-Apr-19 (No. 217-02892) 04-Apr-19 (No. 217-02893) 27-Dec-19 (No. 217-02894) 27-Dec-19 (No. 257-02894) 31-Dec-19 (No. 253-013 Dec19) 31-Dec-19 (No. 253-013 Dec19) Check Date (in house) 06-Apr-16 (in house)	Scheduled Calibration Apr-20 Apr-20 Apr-20 Dec-20 Dec-20 Dec-20 Scheduled Check In house check: Jun-20			
Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291 Power sensor CAL Reference Probe ES3DV2 Secondary Standards Power meter E41/98 Power sensor E41/2A	ID ID ID SN: 104778 SN: 10244 SN: 10244 SN: 10245 SN: 58277 (20x) SN: 5657 (20x) SN: 5013 ID SN: 5641293874 SN: M44469067 SN: M44469067	Cal Date (Certificate No.) 03-Apr-19 (No. 217-02892/02893) 03-Apr-19 (No. 217-02892) 03-Apr-19 (No. 217-02894) 27-0ec-19 (No. 217-02894) 27-0ec-19 (No. 253-001) 31-Dec-19 (No. 253-001) 06-Apr-16 (in house check Jun-18) 06-Apr-16 (in house check Jun-18)	Scheduled Calibration Apr:20 Apr:20 Apr:20 Dec-20 Dec-20 Scheduled Check In house check: Jun-20 In house check: Jun-20			
Calibration Equipment used (M Primary Standards Power meter NRP- Power sansor NRP-291 Power sansor NRP-291 Reference 20 Alternator DAE4 Reference Probe ES3DV2 Secondary Standards Power meter E44198 Power sansor E4412A.	ID ID ID SN: 104778 SN: 103244 SN: 103244 SN: 103247 (20x) SN: 85277 (20x) SN: 55277 (20x) SN: 3013 ID SN: 0841293874 SN: 0841293874 SN: 00170210	Cal Date (Certificate No.) 03-Apr-19 (No. 217-02892/02893) 03-Apr-19 (No. 217-02892) 03-Apr-19 (No. 217-02894) 27-Dec-19 (No. 217-02894) 27-Dec-19 (No. 217-02894) 31-Dec-19 (No. ES3-3013-Dec19) 06-Apr-16 (in house check Jun-18) 06-Apr-16 (in house check Jun-18) 06-Apr-16 (in house check Jun-18)	Scheduled Calibration Apr-20 Apr-20 Apr-20 Dec-20 Dec-20 Scheduled Check In house check: Jun-20 In house check: Jun-20 In house check: Jun-20			
Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291 Power sensor CAL Reference Probe ES3DV2 Secondary Standards Power meter E41/98 Power sensor E41/2A	ID ID ID SN: 104778 SN: 10244 SN: 10244 SN: 10245 SN: 58277 (20x) SN: 5657 (20x) SN: 5013 ID SN: 5641293874 SN: M44469067 SN: M44469067	Cal Date (Certificate No.) 03-Apr-19 (No. 217-02892/02893) 03-Apr-19 (No. 217-02892) 03-Apr-19 (No. 217-02894) 27-0ec-19 (No. 217-02894) 27-0ec-19 (No. 253-001) 31-Dec-19 (No. 253-001) 06-Apr-16 (in house check Jun-18) 06-Apr-16 (in house check Jun-18)	Scheduled Calibration Apr:20 Apr:20 Apr:20 Dec-20 Dec-20 Scheduled Check In house check: Jun-20 In house check: Jun-20			
Calibration Equipment used (M Primary Standards Power annex NRP-291 Power sansor NRP-291 Power sansor NRP-291 Reference 2/08 Attenuator DAE4 Reference Probe ES30V2 Secondary Standards Power sensor E44198 Power sensor E44198 Power sensor E4412A Ref generator VH 9646C	ID ID ID SN: 104778 SN: 10244 SN: 10244 SN: 10244 SN: 10246 SN: 860 SN: 860 SN: 860 SN: 861 ID SN: 8641293874 SN: 800110210 SN: US41080477	Cal Date (Certificate No.) 03-Apr-19 (No. 217-02892/02893) 03-Apr-19 (No. 217-02892) 03-Apr-19 (No. 217-02893) 04-Apr-19 (No. 217-02893) 04-Apr-19 (No. 217-02894) 27-Dec-19 (No. 217-02894) 27-Dec-19 (No. 217-02894) 04-Apr-98 (In house check Jun-18) 06-Apr-16 (In house check Jun-18) 31-Mar-14 (In house check Jun-18)	Scheduled Calibration Apr:20 Apr:20 Apr:20 Dec-20 Dec-20 Dec-20 In house check: Jun-20 In house check: Jun-20			
Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Atteruator DAE4 Reference Probe ES3DV2 Secondary Standards Power meter E4198 Power sensor E412A Power sensor E412A RF generator HP 8648C Network Ansilyzer E8358A	ID ID ID SN: 104778 SN: 103246 SN: 103246 SN: 05247 (20x) SN: 6507 (20x) SN: 05013 SN: 05013 ID SN: 0541293874 SN: 000110210 SN: 050410007 SN: 1036400077 SN: 103640077 Name SN: Weither	Cal Date (Certificate No.) 03-Apr-19 (No. 217-02892/02893) 03-Apr-19 (No. 217-02892) 03-Apr-19 (No. 217-02894) 27-Dec-19 (No. 217-02894) 27-Dec-19 (No. 217-02894) 31-Dec-19 (No. 217-02894) 06-Apr-16 (In house check Jun-16) 06-Apr-16 (In house check Jun-16) 06-Apr-16 (In house check Jun-18) 06-Apr-16 (In house check Jun-18) 06-Apr-16 (In house check Jun-18) 04-Aug-99 (In house check Jun-18) 31-Mar-14 (In house check Jun-18) 31-Mar-14 (In house check Jun-18) 31-Mar-14 (In house check Jun-18) 31-Mar-14 (In house check Jun-18)	Scheduled Calibration Apr:20 Apr:20 Dec-20 Dec-20 Dec-20 Schedule Check In house check: Jun-20 In house check: Jun-20 In house check: Jun-20 In house check: Jun-20			
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Calibration Equipment Used (M Primary Standards Power sensor NRP-291 Power sensor NRP-291 Power sensor NRP-291 Reference 20 Altenuator DAE4 Reference Probe ES3DV2 Secondary Standards Power meter E44198 Power sensor E44198 Power sensor E44198 Network Analyzer E8358A Calibrated by:	ID ID SN: 104778 SN: 10244 SN: 10244 SN: 10244 SN: 10244 SN: 10246 SN: 55277 (20x) SN: 860 SN: 3013 ID ID SN: 0641293874 SN: 0541203874 SN: 00110210 SN: US3462U01700 SN: US3462U01700 SN: US41080477 Name Jatron Kastrati Jatron Kastrati	Cal Date (Certificate No.) 03-Apr-19 (No. 217-02892/02893) 03-Apr-19 (No. 217-02893) 03-Apr-19 (No. 217-02893) 04-Apr-19 (No. 217-02893) 27-Dec-19 (No. 247-02894) 27-Dec-19 (No. 247-02894) 27-Dec-19 (No. 247-02894) 27-Dec-19 (No. 245-690, Dec19) 31-Dec-19 (No. E33-3013 Dec19) Check Date (in house) 06-Apr-16 (in house check Jun-18) 06-Apr-16 (in house check Jun-18) 04-Aug-90 (in house check Jun-18) 31-Mar-14 (in house check Oct-19) Function Laboratory Technician	Scheduled Calibration Apr:20 Apr:20 Apr:20 Dec-20 Dec-20 Dec-20 In house check: Jun-20 In house check: Jun-20			
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Accreditation No : SCS 0108

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Glossary:	
TSL	tissue simulating liquid
NORMx.v.z	sensitivity in free space
ConvF	sensitivity in TSL / NORMx.v.z
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A. B. C. D	modulation dependent linearization parameters
Polarization o	@ rotation around probe axis
Polarization 9	9 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

Connector Angle Introduction Used in DAST system to any proce sensor A to the root controllate system
 Calibration is Performed According to the Following Standards:

 a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
 b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from handheld and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
 c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used next to the ear (frequency range of 300 MHz to 6 GHz)", March 2010
 d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- ods Applied and Interpretation of Parameters: NORMx, yz: Assessed for E-field polarization 9 = 0 (f \leq 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx, yz are only intermediate values, i.e., the uncertainties of NORMx, yz does not affect the E³-field uncertainty inside TSL (see below CorwF). NORM(0, yz: = NORMx, yz: 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 CorwF. DCPx; yz: 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
- ÷
- PAR: PAR is the Peak to Average Ratio that is not calibrated but cetermined based on the signatication characteristics Axy,z, Bxy,z, Cxy,Z, Dxy,Z, IV, X, X, 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 Bounday Effect Parameters: Assessed in Reinhantom 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 typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL correspondit CoNF is used in DASY4 version 4.4 and higher which allows extending the validity form \pm 50 MHz to \pm 100 MHz.
- MHz. Spherical isotropy (3D deviation from isotropy): In a field of low gradients realized using a flat phantom
- Spretrainsouropy (30 behavior) non-souropy). In a line of low gradients realized using a list plantom exposed by a patch anienna. 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:7509

March 25, 2020

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

	100 million -	Sensor X		X Sensor Y		Sensor Z		Unc (k=2)		
Norm (μV/(V/m) ²) ^A	0.51		0.55		0.55		± 10.1 %		
DCP (n		97.8			99.8		94.6			
	ation Results for		Resp	onse	P		D	VB	Max	line
UID	Communication S			A dB	B dBõV	с	D dB	VR mV	Max dev.	Unc ^E (k=2)
Calibra UID			Resp	A		C 1.0				
UID	Communication S			A dB	dBõV		dB	mV	dev.	(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%.

The uncertainties of Norm X, Y, Z do not affect the E⁵-field uncertainty inside TSL (see Page 5). Numerical linearization parameter: uncertainty not required. Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the

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EX3DV4- SN:7509

March 25, 2020

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

Sensor Arrangement	Triangular
Connector Angle (°)	-17.6
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

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March 25, 2020

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

Calibration	Parameter Deter	mined in Head T	Tissue Simulating	Media

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	9.94	9.94	9.94	0.49	0.80	± 12.0 %
835	41.5	0.90	9.73	9.73	9.73	0.35	0.98	± 12.0 %
900	41.5	0.97	9.53	9.53	9.53	0.33	1.00	± 12.0 %
1750	40.1	1.37	8,34	8.34	8.34	0.32	0.86	± 12.0 %
1900	40.0	1.40	8.07	8.07	8.07	0.34	0.86	± 12.0 %
2000	40.0	1.40	7.98	7.98	7.98	0.36	0.86	± 12.0 %
2300	39.5	1.67	7.76	7.76	7.76	0,31	0.90	± 12.0 %
2450	39.2	1.80	7.51	7.51	7.51	0.32	0.90	± 12.0 %
2600	39.0	1.96	7.23	7.23	7.23	0.39	0.90	± 12.0 %
3300	38.2	2.71	6.80	6.80	6.80	0.30	1.35	± 13.1 %
3500	37.9	2.91	6.73	6.73	6.73	0.35	1.35	± 13.1 %
3700	37.7	3.12	6.67	6.67	6.67	0.35	1.35	± 13.1 %
3900	37.5	3.32	6.50	6.50	6.50	0.40	1.60	± 13.1 %
4100	37.2	3.53	6.30	6.30	6.30	0.40	1.60	± 13.1 %
4200	37.1	3.63	6.10	6.10	6.10	0.40	1.60	± 13.1 %
4400	36.9	3.84	6.05	6.05	6.05	0.40	1.60	± 13.1 9
4600	36.7	4.04	6.02	6.02	6.02	0.40	1.60	± 13.1 9
4800	36.4	4.25	5.97	5.97	5.97	0.40	1.80	± 13.1 9
4950	36.3	4.40	5.75	5.75	5.75	0.40	1.80	± 13.1 %
5200	36.0	4.66	5.33	5.33	5.33	0.40	1.80	± 13.1 %
5300	35.9	4.76	5.23	5.23	5.23	0.40	1.80	± 13.1 9
5600	35.5	5.07	4.64	4.64	4.64	0.40	1.80	± 13.1 9
5800	35.3	5.27	4.85	4.85	4.85	0.40	1.80	± 13.1 9

^C Frequency validity above 300 MHz of ± 100 MHz only applies for DASY V4.4 and higher (see Page 2), also 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, 254, 05, 60 and 70 MHz for ConvF assessments at 30, 64, 128, 180 and 220 MHz respectively. Validity of ConvF assessed at 31 MHz is 519 MHz. Above 5 GHz frequency validity and 220 MHz respectively. Validity of ConvF assessment as a 10 MHz for ConvF assessment as a 10 MHz is 0.5 matching to the extended to ± 100 MHz. The measured SAR values. At frequencies below 3 GHz, the validity of tissue parameters (and or) is restricted to 5%. The uncertainty is the RSS of the convF uncertainty for indicated angle table to a measured SAR values. At frequencies below 3 GHz, the validity of tissue parameters (and or) is restricted to ± 5%. The uncertainty is the RSS of the convF uncertainty for indicated angle table to some the convE of the transmiting deviation due to the boundary.

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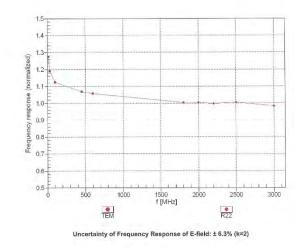
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March 25, 2020





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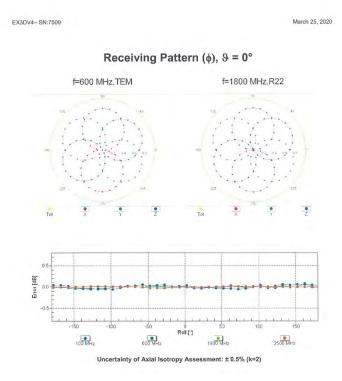
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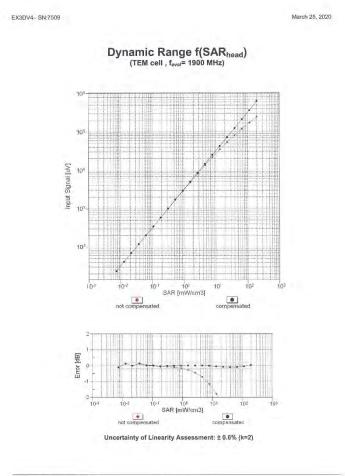
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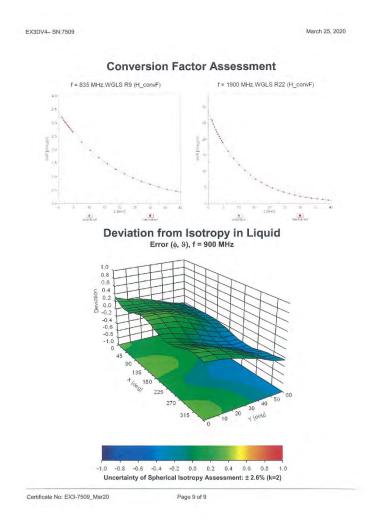
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