

Appendix B - DAE & Probe Calibration Certificate

Engineering AG eughausstrasse 43, 8004 Zurio	ry of		S Schweizerischer Kalibrierdienst Service suisse d'étalonnage Servizio svizzero di taratura S Swiss Calibration Service
ccredited by the Swiss Accredit he Swiss Accreditation Servic fultilateral Agreement for the	e is one of the signatories	to the EA	tion No.: SCS 0108
SGS-TW (Aud	.,		No: DAE4-547_Mar19
CALIBRATION	SERTIFICATE		
Object	DAE4 - SD 000 D	04 BM - SN: 547	
Calibration procedure(s)	QA CAL-06.v29 Calibration procee	dure for the data acquisition e	lectronics (DAE)
Calibration date:	March 22, 2019		
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Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland



Schweizerischer Kalibrierdienst S Service suisse d'étalonnage C 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

DAF 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

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	403.235 ± 0.02% (k=2)	403.136 ± 0.02% (k=2)	402.783 ± 0.02% (k=2)
Low Range	3.95448 ± 1.50% (k=2)	3.90479 ± 1.50% (k=2)	3.96245 ± 1.50% (k=2)

Connector Angle

Connector Angle to be used in DASY system	91.5 ° ± 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	199995.43	1.41	0.00
Channel X + Input	20002.84	1.52	0.01
Channel X - Input	-19996.87	4.76	-0.02
Channel Y + Input	199993.66	0.02	0.00
Channel Y + Input	19999.34	-2.02	-0.01
Channel Y - Input	-20003.96	-2.33	0.01
Channel Z + Input	199994.47	1.04	0.00
Channel Z + Input	20002.60	1.36	0.01
Channel Z - Input	-20001.47	0.29	-0.00

Low Range	Reading (µV)	Difference (µV)	Error (%)
Channel X + Input	2000.59	-0.23	-0.01
Channel X + Input	201.16	-0.10	-0.05
Channel X - Input	-199.09	-0.45	0.23
Channel Y + Input	2000.65	-0.10	-0.01
Channel Y + Input	200.83	-0.37	-0.18
Channel Y - Input	-199.37	-0.70	0.35
Channel Z + Input	2000.46	-0.35	-0.02
Channel Z + Input	199.75	-1.50	-0.75
Channel Z - Input	-200.47	-1.80	0.90

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	-3.65	-5.24
	- 200	5.24	3.62
Channel Y	200	-0.39	-1.02
10.000	- 200	0.24	-0.55
Channel Z	200	5.61	5.22
1	- 200	-7.68	-8.11

3. Channel separation

DAGY eters: Auto Zero Time: 3 sec: Measuring time: 3 sec

	Input Voltage (mV)	Channel X (µV)	Channel Y (µV)	Channel Z (µV)
Channel X	200	11.000	3.67	-2.18
Channel Y	200	9.88	1	4.13
Channel Z	200	4.62	8.17	~

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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	16357	14727
Channel Y	16459	15185
Channel Z	16084	17210

5. Input Offset Measurement

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

	Average (µV)	min. Offset (μV)	max. Offset (μV)	Std. Deviation (µV)
Channel X	-1.59	-2.60	-0.90	0.32
Channel Y	0.54	-0.42	1.60	0.34
Channel Z	0.95	-0.46	2.89	0.59

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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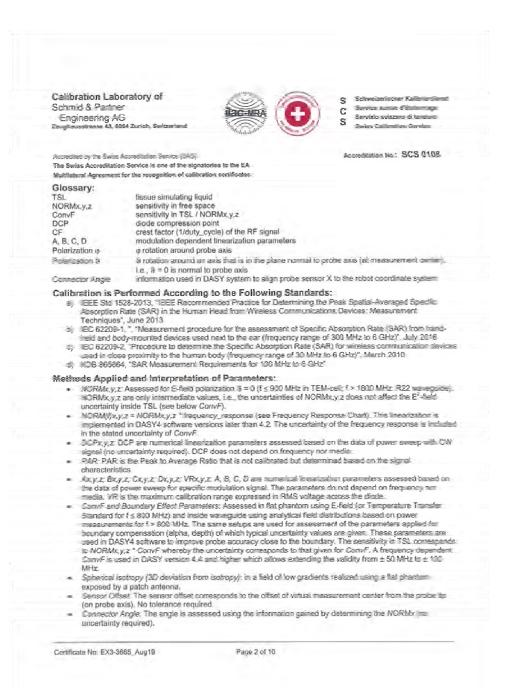
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EX3DV4 SN:3665

August 30, 2019

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3665

Pasia Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (µV/(V/m) ²) ^A	0.49	0.57	0.51	± 10.1 %
DCP (mV) ⁸	97.9	97.1	100.8	

Calibration Results for Modulation Response

010	Communication System Name	T I	dB	dBõV		dB	mV	dev.	(k=2)
0	CW	X	0.0	0.0	1.0	0.00	142.9	±3.5 %	±4.7 %
		Y	0.0	0.0	1.0		160.0		
		Z	0.0	0.0	1.0		146.5	ĺ .	

The reported uncertainty of measurement is stated as the standard uncertainty of measurement. probability of approximately 95%.

⁶ The uncertaining of Norm X Y Z so not effect the ² field uncertainty inside TSL (see Pages 5 and 6). ⁶ Numerical linearization parameter: uncertainty not required. ⁵ acceptantly is determined using the max, deviation from Sear resource matching (add value). ter distribution and is excessed for the second of the

Certificate No. EX3-3665 Aug 19

Page 3 of 10

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EX3DV4 SN:3665

August 30, 2019

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3665

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	75,9
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 Tlp to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

Genificate No: EX3-3665_Aug19

Page 1 of 10

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EX3DV4- SN 3665

August 30, 2019

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3665

f (MHz) ²	Relative	Conductivity (Sim)	-ConvF X	ConvF Y	Const Z	Arres G	Depth ^G	Unc (4=2)
750	41.9	0.89	9.77	9.77	9.77	0.47	0.80	± 12.0 %
835	41.5	0.90	9,47	9.47	9,47	0.39	1.00	± 12.0 %
900	41.5	0.97	9.26	9.26	9.26	0.51	0.80	± 12.0 %
1750	40.1	1.37	8.34	8.34	8.34	0.31	0.86	± 12.0 %
1900	40.0	1.40	8.03	8.03	8.03	0.29	0.88	± 12.0 %
2000	40.0	1.40	8.00	8.00	8.00	0.33	0.85	± 12.0 %
2300	39.5	1.67	7.68	7.68	7.68	0.26	0.88	± 12.0 %
2450	39.2	1.80	7.36	7.36	7.36	0.36	0.88	± 12.0 %
2600	39.0	1.96	7,19	7.19	7.19	0.32	0.88	± 12.0 %
5200	36.0	4.66	5.28	5.28	5.28	0.40	1.80	±13.1%
5300	35.9	4.76	5.18	5.18	5.18	0.40	1.80	± 13.1 %
5600	35.5	5.07	4.99	4.99	4.99	0.40	1.80	± 13.1 %
5800	35.3	5.27	4.97	4,97	4.97	0.40	1.80	± 13.1 %

Programmy velicity above 300 MHz of ± 100 MHz of strip points for DASY v4.4 and Higher (see Page 2), else to a residual to ± 50 MHz. The increasing is the RSS of the ConF exceeding as calibration frequency and the investiging free Page 2), else to a residual to ± 50 MHz. The betw 300 MHz is ± 10, 25, 40, 50 and 10 MHz to ConF assessment at \$0, 04, 123, 150 and 20 MHz respectively. Validity of ConF assessment at \$0, 04, 123, 150 and 20 MHz respectively. Validity of ConF assessment at \$0, 04, 123, 150 and 20 MHz respectively. Validity of ConF assessment at \$0, 04, 123, 150 and 20 MHz respectively. Validity of ConF assessment at \$0, 04, 123, 150 and 20 MHz respectively. Validity of ConF assessment at \$0, 04, 123, 150 and 20 MHz respectively. Validity of ConF assessment at \$0, 04, 123, 150 and 20 MHz respectively. Validity of ConF assessment at \$0, 04, 123, 150 and 20 MHz respectively. Validity of ConF assessment at \$0, 04, 123, 150 and 20 MHz respectively. Validity of ConF assessment at \$0, 04, 123, 150 and 20 MHz respectively. Validity of ConF assessment at \$0, 04, 123, 150 and 20 MHz respectively. Validity of ConF assessment at \$0, 04, 123, 150 and 20 MHz respectively. The Assessment at \$0, 04, 123, 124 MHz respectively. The Assessment at \$0, 04, 124, 124 MHz respectively. The Assessment at \$0, 04, 124, 124 MHz respectively. The Assessment at \$0, 04, 124 MHz respectively. The ASS of the ConF assessment at \$0, 04, 124 MHz respectively. The ASS of the ConF assessment at \$0, 04, 124 MHz respectively. The ASS of the ConF assessment at \$0, 04, 124 MHz respectively. The ASS of the ConF assessment at \$0, 04, 124 MHz respectively. The ASS of the ConF assessment at \$0, 04, 124 MHz respectively. The ASS of the assessment at \$0, 04, 124 MHz respectively. The ASS of the ConF assessment at \$0, 04, 124 MHz respectively. The ASS of the ConF assessment at \$0, 04, 124 MHz respectively. The ASS of the ConF assessment at \$0, 04, 124 MHz respectively. The ASS of the the set \$0, 04, 124 MHz respectively. The ASS of the the termini

Certificate No: EX3-3665_Aug19

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Report No. :E5/2019/B0009 Rev: 01 Page: 11 of 15

EX30V4 5N.3606

August 30, 2019

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3665

r(11984c) ^e	Relative Personny	Conductivity	ConsFX	ConvF Y	Convil Z	Alpha ⁶	Depth ⁶	Unc (/=2)
750	55.5	0.96	10.00	10.00	10.00	0.40	0.85	± 12.0 %
835	55.2	0.97	9.77	9.77	9.77	0.31	0.98	± 12.0 %
900	55.0	1.05	9.48	9.48	9.48	0.47	0.80	± 12.0 %
1750	53.4	1.49	8.06	8.06	8.06	0.38	0.85	± 12.0 %
1900	53.3	1.52	7.73	7.73	7.73	0.42	0.87	±12.0%
2000	53.3	1.52	7.64	7.64	7.64	0.31	0.99	± 12.0 %
2300	52.9	1.81	7.54	7.54	7.54	0.35	0.90	± 12.0 %
2450	52.7	1.95	7.32	7.32	7,32	0,35	0.88	± 12.0 %
2600	52.5	2.16	7.30	7.30	7.30	0.31	0.95	± 12.0 %
5200	49.0	5.30	4.56	4.56	4.56	0.50	1.90	± 13.1 %
5300	48.9	5.42	4.37	4.37	4.37	0.50	1.90	± 13.1 %
5600	48.5	5.77	3.87	3.87	3.87	0.50	1.90	± 13.1 %
5800	48.2	6.00	4.05	4.05	4.05	0.50	1.90	± 13.1 %

Calibration Parameter Determined in Body Tissue Simulating Media

⁶ Requency velicity above 300 kHz of ± 100 kHz only applies for DASY v4.4 and higher (see Plage 2), else it is restricted to 1.5 unormanny is the RSS of the Con-F uncertainty at calibration frequency and the uncertainty for the indicated frequency band. For below 300 kHz is ± 10, 25, 41, 32 and 75 kHz to Con-F assessed at 1.5 bits at 0.2 bits at 0 to is applied to

eys less than ± 1% for the meter from the boundary. ros larger than half the orabe tio

Certilicate No: EX3-3665_Aug19

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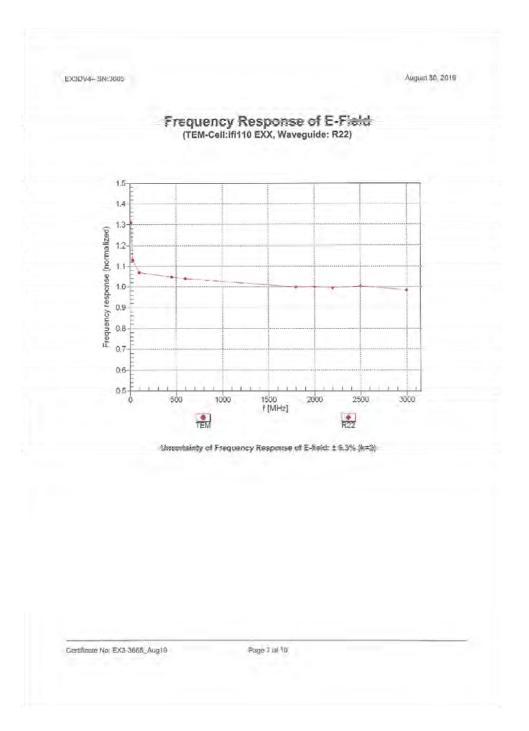
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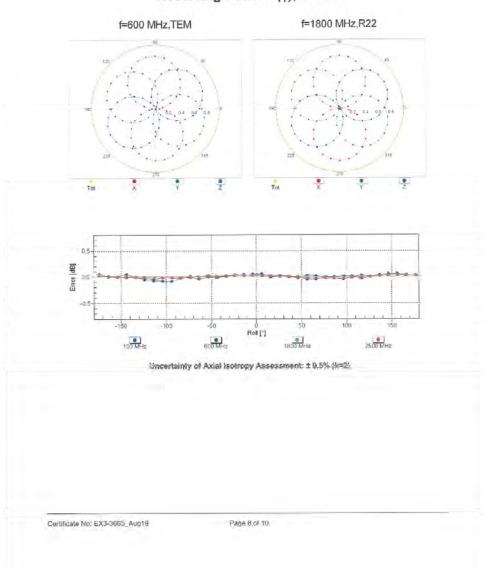
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EX3DV4- SN:3665

August 30, 2019



Receiving Pattern (\$), 9 = 0°

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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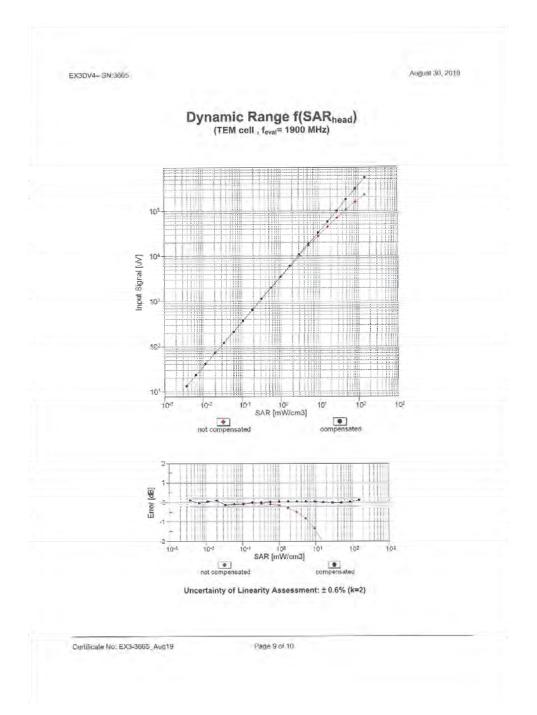
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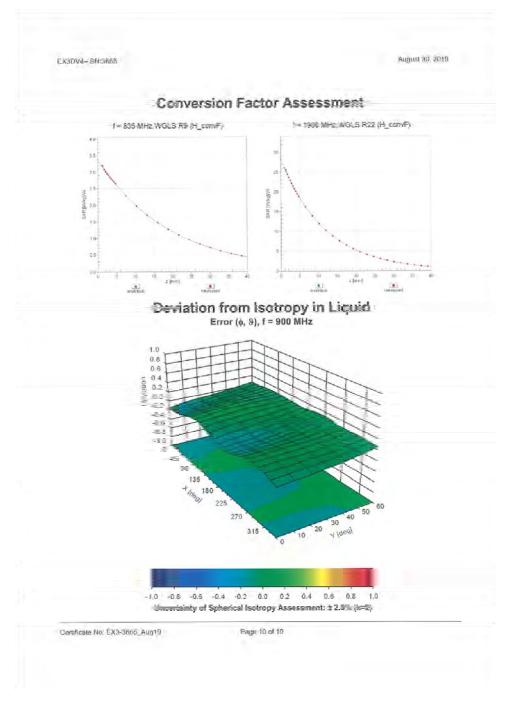
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- End of report -

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