Calibration Laboratory of

Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurlich, Switzerland



S Schweizerischer Kalibrierdienst
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S Swiss Calibration Service

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Client Sporton (Auden)

Certificate No: ET3-1788_Sep04

Accreditation No.: SCS 108

Object	ET3DV6 - SN:1	788	
Calibration procedure(s)	QA CAL-01.v5 Calibration proc	edure for dosimetric E-field probes	
Calibration date:	September 30, 2	2004	
Condition of the calibrated item	In Tolerance		Milkillanges
The measurements and the unce All calibrations have been condu-	ortainties with confidence	stional standards, which realize the physical units of probability are given on the following pages and are ony facility: environment temperature (22 ± 3)°C are	part of the certificate.
Calibration Equipment used (M&			
Drimmer Standards			School and Calibration
CONTROL OF CONTROL PRINTED TO CONTROL	ID#	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration May 05
Power moter E44198		Cal Date (Calibrated by, Certificate No.) 5-May 04 (METAS, No. 251 00398)	Scheduled Calibration May-05 May-05
Power moter E44198 Power sensor E4412A	ID# GB41293874	Cal Date (Calibrated by, Certificate No.)	May-05
Power moter E44198 Power sensor E4412A Reference 3 dB Attenuator	ID# G845293874 MY41495277	Cal Date (Calibrated by, Certificate No.) 5-May 04 (METAS, No. 251 00388) 5-May-04 (METAS, No. 251-00388)	May-05 May-05
Fower moter E44198 Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator	ID # G841293874 MY41495277 SN: S5054 (3c)	Cal Date (Calibrated by, Certificate No.) 5 May 04 (METAS, No. 251 00388) 5-May-04 (METAS, No. 251-00388) 3-Apr-03 (METAS, No. 251-00403)	May-05 May-05 Aug-05
Power moter E44198 Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator	ID # CB41293874 MY41495277 SN: S5054 (3c) SN: S5088 (20b)	Cal Date (Calibrated by, Certificate No.) 5 May 04 (METAS, No. 251 00388) 5-May-04 (METAS, No. 251-00388) 3-Apr-03 (METAS, No. 251-00403) 3-May-04 (METAS, No. 251-00389)	May-05 May-05 Aug-05 May-05
Power moter E44108 Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference Probe ES30V2	ID # CB41293874 MY41495277 SN: S5054 (3c) SN: S5088 (20b) SN: S5129 (30b)	Cal Date (Calibrated by, Certificate No.) 5 May 04 (METAS, No. 251 00388) 5-May-04 (METAS, No. 251-00388) 3-Apr-03 (METAS, No. 251-00403) 3-May-04 (METAS, No. 251-00389) 3-Apr-03 (METAS, No. 251-00404)	May-05 May-05 Aug-05 May-05 Aug-05
Power moter E44198 Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference Probe ESSIDV2 DAE4	ID # G841293874 MY41495277 SN: S5054 (3c) SN: S5088 (20b) SN: S5129 (30b) SN:3013	Cal Date (Calibrated by, Certificate No.) 5 May 04 (METAS, No. 261 00388) 5 May-04 (METAS, No. 251-00388) 3-Apr-03 (METAS, No. 251-00403) 3-Apr-03 (METAS, No. 251-00404) 8-Jan-04 (SPEAG, No. ES3-3013_Jan04)	May-05 May-05 Aug-05 May-05 Aug-05 Jan-05
Power motor E44198 Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference Probe ES30V2 DAE4 Secondary Standards	ID # GB41293874 MY41495277 SN: S5054 (3c) SN: S5088 (20b) SN: S5129 (30b) SN:39113 SN: 817	Cal Date (Calibrated by, Certificate No.) 5 May 04 (METAS, No. 251 00388) 5 May-04 (METAS, No. 251 00388) 3-Apr-03 (METAS, No. 251-00403) 3-May-04 (METAS, No. 251-00389) 3-Apr-03 (METAS, No. 251-00389) 8-Jan-04 (SPEAG, No. ES3-3013_Jan04) 28-May-04 (SPEAG, No. DAE4-617_May04)	May-05 May-05 Aug-05 May-05 Aug-05 Jan-05 May-05
Power motor E44198 Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference Probe ES30V2 DAS4 Secondary Standards Power sensor HP 8481A	ID # GB41293874 MY41495277 SN: \$5054 (3c) SN: \$5084 (20b) SN: \$5129 (30b) SN:30113 SN: 817	Cai Date (Calibrated by, Certificate No.) 5-May-04 (METAS, No. 251-00388) 5-May-04 (METAS, No. 251-00388) 3-Apr-03 (METAS, No. 251-00403) 3-May-04 (METAS, No. 251-00409) 3-Apr-03 (METAS, No. 251-00404) 8-Jan-04 (SPEAG, No. ES3-3013_Jan04) 28-May-04 (SPEAG, No. DAE4-617_May04) Check Date (in house)	May-05 May-05 Aug-05 May-05 Aug-05 Jan-05 May-05 Scheduled Check
Power moter E44198 Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference Probe ES30V2 DAE4 Secondary Standards Power sensor HP 8481A RF generator HP 8648C	ID # GB41293874 MY41495277 SN: S6954 (3c) SN: S5988 (20b) SN: S5129 (30b) SN:3013 SN: \$17 ID # MY41092180	Cal Date (Calibrated by, Certificate No.) 5 May 04 (METAS, No. 251 00398) 5-May-04 (METAS, No. 251-00398) 3-Apr-03 (METAS, No. 251-00403) 3-May-04 (METAS, No. 251-00409) 3-Apr-03 (METAS, No. 251-00404) 8-Jan-04 (SPEAG, No. ES3-3013_Jan04) 28-May-04 (SPEAG, No. DAE4-617_May04) Check Date (in house) 18-Sop-02 (SPEAG, in house check Oct-03)	May-05 May-05 Aug-05 May-05 Aug-05 Jan-05 May-05 Scheduled Check In house check: Oct 05
Primary Standards Power moter E4419B Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference Probe ES30V2 DA54 Secondary Standards Power sensor HP 8481A RF generator HP 8486 Network Analyzer HP 8753E	ID # G841293874 MY41495277 SN: S5054 (3c) SN: S5068 (20b) SN:3013 SN: 817 ID # MY41092180 US3642U01700 US37390585 Name	Cai Date (Calibrated by, Certificate No.) 5-May-04 (METAS, No. 251-00388) 5-May-04 (METAS, No. 251-00388) 3-Apr-03 (METAS, No. 251-00403) 3-May-04 (METAS, No. 251-00409) 3-Apr-03 (METAS, No. 251-00404) 8-Jan-04 (SPEAG, No. ES3-3013_Jan04) 28-May-04 (SPEAG, No. DAE4-617_May04) Check Date (in house) 18-Sop-02 (SPEAG, in house check Dec-03) 4-Aug-99 (SPEAG, in house check Dec-03)	May-05 May-05 Aug-05 Aug-05 Aug-05 Aug-06 Jan-05 May-05 Scheduled Check In house check: Oct 05 In house check: Nov 04 Signature
Power moter E44198 Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference Probe ES30V2 DAE4 Secondary Standards Power consor HP 8481A RF generator HP 8648C Network Analyzer HP 8753E	ID # G841293874 MY41495277 SN: S5054 (3c) SN: S5088 (20b) SN: S5129 (30b) SN:3013 SN: 517 ID # MY41092180 US3642U01700 US37396585	Cal Date (Calibrated by, Certificate No.) 5 May 04 (METAS, No. 261 00388) 5-May-04 (METAS, No. 251-00388) 3-Apr-03 (METAS, No. 251-00403) 3-May-04 (METAS, No. 251-00404) 8-Jan-04 (METAS, No. 251-00404) 8-Jan-04 (SPEAU, No. ES3-3013_Jan04) 28-May-04 (SPEAU, No. DAE4-617_May04) Check Date (in house) 18-Sqp-02 (SPEAG, in house check Date-03) 18-Oct-01 (SPEAG, in house check Date-03)	May-05 May-05 Aug-05 Aug-05 Aug-05 Aug-06 Jan-05 May-05 Scheduled Check In house check: Oct 05 In house check: Nov 04 Signature
Power moter E44198 Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Reference 30 dB Attenuator Reference Probe ES30V2 DAE4 Secondary Standards Power sensor HP 8481A RF generator HP 8648C	ID # G841293874 MY41495277 SN: S5054 (3c) SN: S5068 (20b) SN:3013 SN: 817 ID # MY41092180 US3642U01700 US37390585 Name	Cal Date (Calibrated by, Certificate No.) 5 May 04 (METAS, No. 261 (0338) 5-May-04 (METAS, No. 251-0038) 3-Apr-03 (METAS, No. 251-0040) 3-Apr-03 (METAS, No. 251-0040) 8-Jan-04 (SPEAG, No. ES3-3013_Jan04) 28-May-04 (SPEAG, No. DAE4-617_May04) Check Date (in house) 18-Sop-02 (SPEAG, in house check Dat-03) 18-Oct-01 (SPEAG, in house check Nov-03) Function	May-05 May-05 Aug-05 Aug-05 Aug-05 Aug-05 Jan-05 May-05 Scheduled Check In house check: Oct 05 In house check: Nov 04

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Glossary:

TSL NORMx,y,z

ConF

DCP

tissue simulating liquid sensitivity in free space sensitivity in TSL / NORMx,y,z diode compression point

Polarization φ Polarization 9 ϕ rotation around probe axis θ 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

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2003, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
- b) CENELEC EN 50361, "Basic standard for the measurement of Specific Absorption Rate related to human exposure to electromagnetic fields from mobile phones (300 MHz - 3 GHz), July 2001

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 effect 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 ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep (no uncertainty required). DCP does not depend on frequency nor media.
- 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 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,y,z * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY 4.3 B17 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 antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.

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ET3DV6 SN:1788

September 30, 2004

Probe ET3DV6

SN:1788

Manufactured:

May 28, 2003

Last calibrated: Recalibrated: August 29, 2003

September 30, 2004

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)

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ET3DV6 SN:1788

September 30, 2004

DASY - Parameters of Probe: ET3DV6 SN:1788

Sensitivity in Free Space ^A			Diode Compressi	
NormX	1.68 ± 9.9%	$\mu V/(V/m)^2$	DCP X	94 mV
NormY	1.70 ± 9.9%	$\mu V/(V/m)^2$	DCP Y	94 mV
NormZ	1.74 ± 9.9%	$\mu V/(V/m)^2$	DCP Z	94 mV

Sensitivity in Tissue Simulating Liquid (Conversion Factors)

Please see Page 8.

Boundary Effect

TSL	900 MHz	Typical SAR gradient: 5 % per mm
IaL	BUU MINZ	Typical and utaulent, a 76 per min

Sensor Cente	er to Phantom Surface Distance	3.7 mm	4.7 mm
SAR _{be} [%]	Without Correction Algorithm	8.1	4.4
SAR _{be} [%]	With Correction Algorithm	0.7	0.1

TSL 1810 MHz Typical SAR gradient: 10 % per mm

Sensor Center	r to Phantom Surface Distance	3.7 mm	4.7 mm	
SAR _{be} [%]	Without Correction Algorithm	12.0	8.2	
SAR _{be} [%]	With Correction Algorithm	0.9	0.1	

Sensor Offset

Probe Tip to Sensor Center 2.7 mm

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 NormX,Y,Z do not affect the E²-field uncertainty inside TSL (see Page 8).

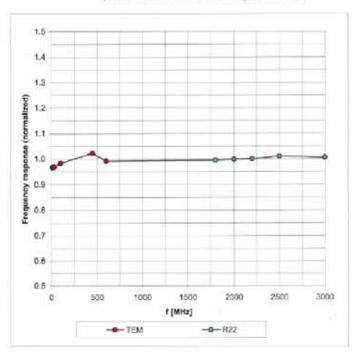
Numerical linearization parameter; uncertainty not required.



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Frequency Response of E-Field

(TEM-Cell:Ifl110 EXX, Waveguide: R22)



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

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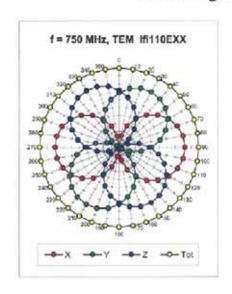
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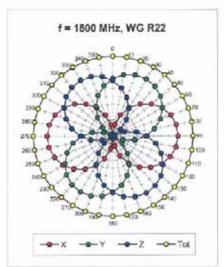


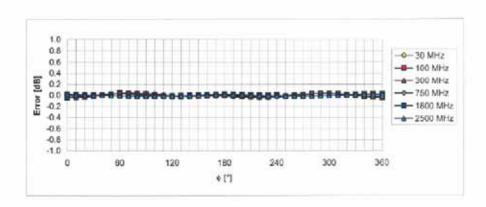


September 30, 2004

Receiving Pattern (\$\phi\$), 9 = 0°







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

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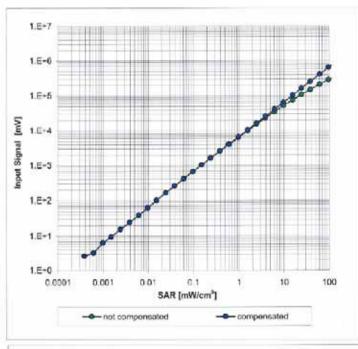
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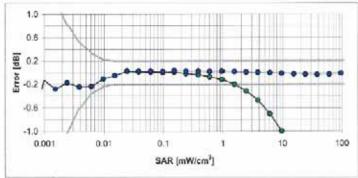


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Dynamic Range f(SAR_{head})

(Waveguide R22, f = 1800 MHz)





Uncertainty of Linearity Assessment: ± 0.6% (k=2)

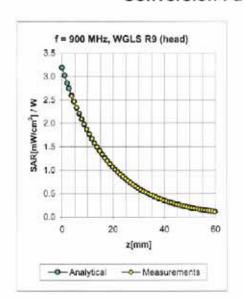
Certificate No: ET3-1788_Sep04

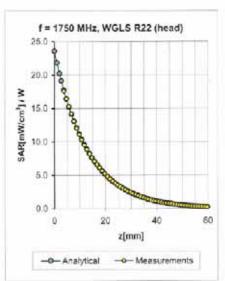
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Conversion Factor Assessment





Validity [MHz] ^c	TSL	Permittivity	Conductivity	Alpha	Depth	ConvF Uncertainty
±50/±100	Head	$41.5\pm5\%$	0.90 ± 5%	1.12	1.42	6.74 ± 11.0% (k=2)
±50/±100	Head	$41.5\pm5\%$	$0.97 \pm 5\%$	1.07	1.44	6.63 ± 11.0% (k=2)
±50/±100	Head	$40.0\pm5\%$	1.40 ± 5%	0.56	2.31	5.37 ± 11.0% (k=2)
±50/±100	Head	$40.0 \pm 5\%$	$1.40 \pm 5\%$	0.55	2.42	5.16 ± 11.0% (k=2)
± 50 / ± 100	Head	$40.0 \pm 5\%$	$1.40 \pm 5\%$	0.54	2.59	4.88 ± 11.0% (k=2)
±50/±100	Head	39.2 ± 5%	1.80 ± 5%	0.65	2.22	4.56 ± 11.8% (k=2)
± 50 / ± 100	Body	55.2 ± 5%	0.97 ± 5%	1.04	1.52	6.53 ± 11.0% (k=2)
± 50 / ± 100	Body	55.0 ± 5%	1.05 ± 5%	0.99	1.56	6.17 ± 11.0% (k=2)
±50/±100	Body	53.3 ± 5%	$1.52 \pm 5\%$	0.53	2.74	4.73 ± 11.0% (k=2)
± 50 / ± 100	Body	53.3 ± 5%	1.52 ± 5%	0.55	2.82	4.56 ± 11.0% (k=2)
±50/±100	Body	53.3 ± 5%	$1.52 \pm 5\%$	0.54	2.98	4.43 ± 11.0% (k=2)
± 50 / ± 100	Body	52.7 ± 5%	1.95 ± 5%	0.72	2.00	4.26 ± 11.8% (k=2)
	±50/±100 ±50/±100 ±50/±100 ±50/±100 ±50/±100 ±50/±100 ±50/±100 ±50/±100 ±50/±100 ±50/±100	±50/±100 Head ±50/±100 Head ±50/±100 Head ±50/±100 Head ±50/±100 Head ±50/±100 Head ±50/±100 Body ±50/±100 Body ±50/±100 Body ±50/±100 Body	±50/±100 Head 41.5±5% ±50/±100 Head 40.0±5% ±50/±100 Head 40.0±5% ±50/±100 Head 40.0±5% ±50/±100 Head 40.0±5% ±50/±100 Head 39.2±5% ±50/±100 Body 55.2±5% ±50/±100 Body 55.0±5% ±50/±100 Body 53.3±5% ±50/±100 Body 53.3±5%	±50/±100 Head 41.5±5% 0.90±5% ±50/±100 Head 40.0±5% 1.40±5% ±50/±100 Head 40.0±5% 1.40±5% ±50/±100 Head 40.0±5% 1.40±5% ±50/±100 Head 40.0±5% 1.40±5% ±50/±100 Head 39.2±5% 1.80±5% ±50/±100 Body 55.2±5% 0.97±5% ±50/±100 Body 55.0±5% 1.06±5% ±50/±100 Body 53.3±5% 1.52±5% ±50/±100 Body 53.3±5% 1.52±5% ±50/±100 Body 53.3±5% 1.52±5%	±50/±100 Head 41.5±5% 0.90±5% 1.12 ±50/±100 Head 41.5±5% 0.97±5% 1.07 ±50/±100 Head 40.0±5% 1.40±5% 0.56 ±50/±100 Head 40.0±5% 1.40±5% 0.55 ±50/±100 Head 40.0±5% 1.40±5% 0.54 ±50/±100 Head 39.2±5% 1.80±5% 0.65 ±50/±100 Body 55.2±5% 0.97±5% 1.04 ±50/±100 Body 55.0±5% 1.06±5% 0.99 ±50/±100 Body 53.3±5% 1.52±5% 0.63 ±50/±100 Body 53.3±5% 1.52±5% 0.65 ±50/±100 Body 53.3±5% 1.52±5% 0.65	±50/±100 Head 41.5±5% 0.90±5% 1.12 1.42 ±50/±100 Head 41.5±5% 0.97±5% 1.07 1.44 ±50/±100 Head 40.0±5% 1.40±5% 0.56 2.31 ±50/±100 Head 40.0±5% 1.40±5% 0.55 2.42 ±50/±100 Head 40.0±5% 1.40±5% 0.54 2.59 ±50/±100 Head 39.2±5% 1.80±5% 0.65 2.22 ±50/±100 Body 55.2±5% 0.97±5% 1.04 1.52 ±50/±100 Body 55.0±5% 1.06±5% 0.99 1.56 ±50/±100 Body 53.3±5% 1.52±5% 0.63 2.74 ±50/±100 Body 53.3±5% 1.52±5% 0.54 2.82 ±50/±100 Body 53.3±5% 1.52±5% 0.56 2.82

⁶ The validity of ± 100 MHz only applies for DASY 4.3 B17 and higher (see Page 2). The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

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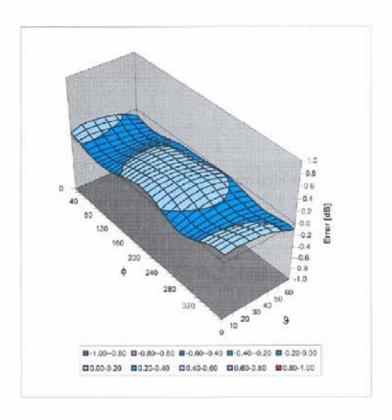
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Deviation from Isotropy in HSL

Error (4, 8), f = 900 MHz



Uncertainty of Spherical Isotropy Assessment: ± 2.6% (k=2)

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Multilateral Agreement for the recognition of calibration certificates

Sporton (Auden) Client

Certificate No: DAE3-577_Nov05

Accreditation No.: SCS 108

CALIBRATION C	ERTIFICATE		
Object	DAE3 - SD 000 D	03 AA - SN: 577	
Calibration procedure(s)	QA CAL-06.v12 Calibration proced	dure for the data acquisition electr	ronics (DAE)
Calibration date:	November 11, 20	05	
Condition of the calibrated item	In Tolerance		
The measurements and the uncer	tainties with confidence protection	onal standards, which realize the physical units obability are given on the following pages and γ facility: environment temperature (22 ± 3)°C	are part of the certificate.
Primary Standards	ID#	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Fluke Process Calibrator Type 70	SN: 6295803	7-Oct-05 (Sintrel, No.E-050073)	Oct-06
Secondary Standards	ID#	Check Date (in house)	Scheduled Check
Calibrator Box V1.1	SE UMS 006 AB 1002	29-Jun-05 (SPEAG, in house check)	In house check Jun-06
•	Name	Function	Signature
Calibrated by:	Daniel Steinacher	Technician	The Stenador
Approved by:	Fin Bomholt	R&D Director	unlolt
This callbanding and Control to the		full without written approval of the laboratory.	Issued: November 11, 2005

Certificate No: DAE3-577_Nov05

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Glossary

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 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: 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 = 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	404.445 ± 0.1% (k=2)	403.896 ± 0.1% (k=2)	404.369 ± 0.1% (k=2)
Low Range	3.94241 ± 0.7% (k=2)	3.89919 ± 0.7% (k=2)	3.95427 ± 0.7% (k=2)

Connector Angle

Connector Angle to be used in DASY system	130 ° ± 1 °
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Certificate No: DAE3-577_Nov05

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Appendix

1. DC Voltage Linearity

High Range		Input (μV)	Reading (μV)	Error (%)
Channel X	+ Input	200000	199999.3	0.00
Channel X	+ Input	20000	20006.75	0.03
Channel X	- Input	20000	-19997.90	-0.01
Channel Y	+ Input	200000	200000.3	0.00
Channel Y	+ Input	20000	20004.58	0.02
Channel Y	- Input	20000	-20000.75	0.00
Channel Z	+ Input	200000	199999.6	0.00
Channel Z	+ Input	20000	20001.43	0.01
Channel Z	- Input	20000	-20003.93	0.02

Low Range		Input (μV)	Reading (μV)	Error (%)
Channel X	+ Input	2000	2000.1	0.00
Channel X	+ Input	200	200.42	0.21
Channel X	- Input	200	-200.30	0.15
Channel Y	+ Input	2000	2000.1	0.00
Channel Y	+ Input	200	199.35	-0.32
Channel Y	- Input	200	-200.96	0.48
Channel Z	+ Input	2000	1999.9	0.00
Channel Z	+ Input	200	199.37	-0.31
Channel Z	- Input	200	-200.62	0.31

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	13.40	12.55
	- 200	-12.29	13.06
Channel Y	200	-6.93	-7.43
	- 200	6.72	6.47
Channel Z	200	0.71	0.36
_	- 200	-1.67	-1.93

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	-	1.59	0.08
Channel Y	200	1.69	-	3.62
Channel Z	200	-0.73	-1.49	-

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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	15946	15679
Channel Y	15960	16151
Channel Z	16233	15968

5. Input Offset Measurement

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

Input 10MΩ

	Average (μV)	min. Offset (μV)	max. Offset (μV)	Std. Deviation (µV)
Channel X	0.08	-1.13	2.31	0.51
Channel Y	-0.35	-2.00	0.81	0.43
Channel Z	-0.38	-2.76	1.68	0.40

6. Input Offset Current

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

7. Input Resistance

	Zeroing (MOhm)	Measuring (MOhm)
Channel X	0.2000	200.8
Channel Y	0.2000	201.4
Channel Z	0.2001	200.3

8. Low Battery Alarm Voltage (verified during pre test)

Low Dattery Admir Voltage (Verified dulling pre test)			
Typical values	Alarm Level (VDC)		
Supply (+ Vcc)	+7.9		
Supply (- Vcc)	-7.6		

9. Power Consumption (verified during pre test)

Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)
Supply (+ Vcc)	+0.0	+6	+14
Supply (- Vcc)	-0.01	-8	-9

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