

	ADT CORP.
D2: DOSIMETRIC E-FIELD PROBE	
EX3DV3 - SN:3504□	

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IMPORTANT NOTICE

UNCERTAINTY OF THE PROBE CONVERSION FACTOR

Important Note:

The Swiss accreditation body (METAS) has requested an additional uncertainty for narrow bandwidth probe calibration compared to the uncertainty table of IEEE/IEC defined for a single frequency. SPEAG and the IT'IS foundation are currently investigating the most appropriate method for narrow and broadband uncertainty assessment.

A preliminary uncertainty value for the indicated frequency bandwidth is included in the attached probe calibration document.

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Schmid & Partner Engineering AG

Calibration Laboratory of

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

Client

ADT (Auden)

CALIBRATION CERTIFICATE

Object(s)	EX3DV3 - SN:3504
Calibration procedure(s)	QA CAL-01.v2 Calibration procedure for dosimetric E-field probes

Calibration date: February 20, 2004

Condition of the calibrated item In Tolerance (according to the specific calibration document)

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 +/- 2 degrees Celsius and humidity < 75%.

Calibration Equipment used (M&TE critical for calibration)

Fin Bomholt

2-Apr-03 (METAS, No 252-0250) 2-Apr-03 (METAS, No 252-0250) b) 3-Apr-03 (METAS, No. 251-0340)	Apr-04 Apr-04
= 7 (p) 00 (ME17 (0), 140 202 0200)	Apr-04
b) 3-Apr-03 (METAS No. 251 0340)	7 (P) OT
5) 5-Api-00 (ML 1A3, M0. 23 1-0340)	Apr-04
8-Sep-03 (Sintrel SCS No. E-030020)	Sep-04
18-Sep-02 (SPEAG, in house check Oct-03)	In house check: Oct 05
700 4-Aug-99 (SPEAG, in house check Aug-02)	In house check: Aug-05
18-Oct-01 (SPEAG, in house check Oct-03)	In house check: Oct 05
Function	Signature
Laboratory Director	Moriellet
-	

R&D Director

Date issued: February 26, 2004

F. Boulielf

This calibration certificate is issued as an intermediate solution until the accreditation process (based on ISO/IEC 17025 International Standard) for Calibration Laboratory of Schmid & Partner Engineering AG is completed.

Approved by:

Probe EX3DV3

SN:3504

Manufactured: Last calibrated: December 15, 2003 February 20, 2004

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)

mV mV mV

DASY - Parameters of Probe: EX3DV3 SN:3504

Sensitivity in Free Space

Diode Compression^A

NormX	0.59 μ V/(V/m) ²	DCP X	96	
NormY	0.58 μ V/(V/m) ²	DCP Y	96	
NormZ	0.64 $\mu V/(V/m)^2$	DCP Z	96	

Sensitivity in Tissue Simulating Liquid (Conversion Factors)

Plese see Page 7.

Boundary Effect

Head

900 MHz

Typical SAR gradient: 5 % per mm

Sensor Cener to Phantom Surface Distance		2.0 mm	3.0 mm	
SAR _{be} [%]	Without Correction Algorithm	2.8	1.0	
SAR _{be} [%]	With Correction Algorithm	0.0	0.1	

Head

1800 MHz

Typical SAR gradient: 10 % per mm

Sensor to Surface Distance		2.0 mm	3.0 mm
SAR _{be} [%]	Without Correction Algorithm	4.6	2.8
SAR _{be} [%]	With Correction Algorithm	0.1	0.3

Sensor Offset

Probe Tip to Sensor Center

1.0 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%.

^A numerical linearization parameter: uncertainty not required

Frequency Response of E-Field

EX3DV3 SN:3504

(TEM-Cell:ifi110, Waveguide R22)

