

10. Calibration Data

The following pages show calibration certification data for the Schmid & Partner AG DASY4 SAR system.

K112061.

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

Client Qualcomm USA

CALIBRATION CERTIFICATE

Object(s) DAE3 - SN:566

Calibration procedure(s) QA CAL-06.v2
Calibration procedure for the data acquisition unit (DAE)

Calibration date: May 23, 2003


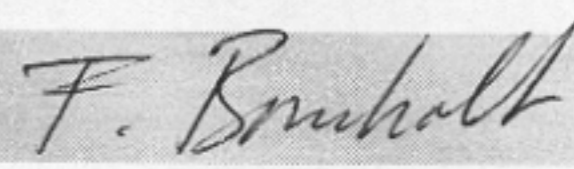
Condition of the calibrated item In Tolerance (according to the specific calibration document)

This calibration statement documents traceability of M&TE used in the calibration procedures and conformity of the procedures with the ISO/IEC 17025 international standard.

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)

Model Type	ID #	Cal Date	Scheduled Calibration
Fluke Process Calibrator Type 702	SN: 6295803	3-Sep-01	Sep-03

	Name	Function	Signature
Calibrated by:	Eric Hainfeld	Technician	
Approved by:	Fin Bomholt	R&D Director	

Date issued: May 23, 2003

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.

1. DC Voltage Measurement

DA - Converter Values from DAE

High Range: 1LSB = 6.1 μ V, full range = 400 mV
 Low Range: 1LSB = 61nV, full range = 4 mV

Software Set-up: Calibration time: 3 sec Measuring time: 3 sec

Setup	X	Y	Z
High Range	406.1567946	406.2287709	405.1934136
Low Range	3.95682	3.94645	3.95043
Connector Position	77 °		

High Range	Input	Reading in μ V	% Error
Channel X + Input	200mV	200001	0.00
	20mV	19998.7	-0.01
Channel X - Input	20mV	-19996	-0.02
	200mV	200000	0.00
Channel Y + Input	20mV	19998.8	-0.01
	20mV	-19995.3	-0.02
Channel Y - Input	200mV	200001	0.00
	20mV	19996.1	-0.02
Channel Z + Input	20mV	-19998.4	-0.01

Low Range	Input	Reading in μ V	% Error
Channel X + Input	2mV	1999.9	0.00
	0.2mV	200.3	0.15
Channel X - Input	0.2mV	-200.65	0.33
	2mV	1999.9	0.00
Channel Y + Input	0.2mV	199.83	-0.08
	0.2mV	-200.69	0.34
Channel Y - Input	2mV	1999.9	0.00
	0.2mV	198.46	-0.77
Channel Z + Input	0.2mV	-201.3	0.65