

AM1D probe identification and configuration data

Item	AM1DV3 Audio Magnetic 1D Field Probe
Type No	SP AM1 001 BA
Serial No	3086

Overall length	296 mm
Tip diameter	6.0 mm (at the tip)
Sensor offset	3.0 mm (centre of sensor from tip)
Internal Amplifier	20 dB

Manufacturer / Origin	Schmid & Partner Engineering AG, Zurich, Switzerland
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Calibration data

Connector rotation angle	(in DASY system)	204.9 °	+/- 3.6 ° (k=2)
Sensor angle	(in DASY system)	1.35 °	+/- 0.5 ° (k=2)
Sensitivity at 1 kHz	(in DASY system)	0.00743 V/(A/m)	+/- 2.2 % (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%.



ANNEX D: DAE Calibration Certificate

 TTL In Collaboration with s p e a g CALIBRATION LABORATORY		  CAICT 中国认可 国际互认 校准 CALIBRATION CNAS L0570	
Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China Tel: +86-10-62304633-2117 E-mail: emf@caict.ac.cn http://www.caict.ac.cn			
Client : SAICT		Certificate No: J23Z60348	
CALIBRATION CERTIFICATE			
Object	DAE4 - SN: 1527		
Calibration Procedure(s)	FF-Z11-002-01 Calibration Procedure for the Data Acquisition Electronics (DAEx)		
Calibration date:	August 07, 2023		
<p>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.</p> <p>All calibrations have been conducted in the closed laboratory facility: environment temperature(22±3)°C and humidity<70%.</p> <p>Calibration Equipment used (M&TE critical for calibration)</p>			
Primary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
Process Calibrator 753	1971018	12-Jun-23 (CTTL, No.J23X05436)	Jun-24
Calibrated by:	Name Yu Zongying	Function SAR Test Engineer	 Signature
Reviewed by:	Lin Hao	SAR Test Engineer	
Approved by:	Qi Dianyuan	SAR Project Leader	
Issued: August 13, 2023			
This calibration certificate shall not be reproduced except in full without written approval of the laboratory.			



Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China
Tel: +86-10-62304633-2117
E-mail: emf@caict.ac.cn <http://www.caict.ac.cn>

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 report provide only calibration results for DAE, it does not contain other performance test results.



Calibration Factors	X	Y	Z
High Range	$403.899 \pm 0.15\% (k=2)$	$403.622 \pm 0.15\% (k=2)$	$403.838 \pm 0.15\% (k=2)$
Low Range	$3.95893 \pm 0.7\% (k=2)$	$3.98923 \pm 0.7\% (k=2)$	$3.96778 \pm 0.7\% (k=2)$

Connector Angle to be used in DASY system	$62^\circ \pm 1^\circ$
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Certificate No: J23Z60348

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END OF REPORT

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