

Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China

Tel: +86-10-62304633-2117 E-mail: emf@caict.ac.cn

.cn http://www.caict.ac.cn

Client :

**GRG METROLOGY&TEST** 



Certificate No: 24J02Z000192

## CALIBRATION CERTIFICATE

Object

DAE4 - SN: 1718

Calibration Procedure(s)

FF-Z11-002-01

Calibration Procedure for the Data Acquisition Electronics

(DAEx)

Calibration date:

May 11, 2024

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±3)  $^{\circ}$ C and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration	
Process Calibrator 753	1971018	12-Jun-23 (CTTL, No.J23X05436)	Jun-24	
				-

Name

Function

Signature

Calibrated by:

Yu Zongying

SAR Test Engineer

Brown D

Reviewed by:

Lin Jun

SAR Test Engineer

Approved by:

Qi Dianyuan

SAR Project Leader

Issued: May 11, 2024

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.





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Glossary:

data acquisition electronics DAE

information used in DASY system to align probe sensor X Connector angle

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.

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## **DC Voltage Measurement**

A/D - Converter Resolution nominal

High Range:

1LSB =

 $6.1\mu V$ ,

full range =

-100...+300 mV

full range =

-1.....+3mV

61nV, 1LSB = DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	X	Υ	Z
High Range	405.011 ± 0.15% (k=2)	405.050 ± 0.15% (k=2)	404.713 ± 0.15% (k=2)
			4.01030 ± 0.7% (k=2)
Low Range	3.94403 ± 0.770 (K =)		

## **Connector Angle**

	218.5° ± 1 °	
Connector Angle to be used in DASY system	210.0	

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