



In Collaboration with
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CALIBRATION LABORATORY



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CALIBRATION
CNAS L0570

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Client **Xiamen KEHU-Morlab**

Certificate No. **Z19-60377**

CALIBRATION CERTIFICATE

Object **DAE4 - SN 1516**

Calibration Procedure(s) **FF-Z11-002-01**
Calibration Procedure for the Data Acquisition Electronics (DAEx)

Calibration date **November 11, 2019**

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)°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	24-Jun-19 (CTTL, No J19X05126)	Jun-20

	Name	Function	Signature
Calibrated by	Yu Zongying	SAR Test Engineer	
Reviewed by	Lin Hao	SAR Test Engineer	
Approved by	Qi Danyuan	SAR Project Leader	

Issued November 13, 2019

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



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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 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 μ V, full range = -100 ... +300 mV

Low Range 1LSB = 61 nV, full range = -1 ... +3 mV

DASY measurement parameters Auto Zero Time 3 sec, Measuring time 3 sec

Calibration Factors	X	Y	Z
High Range	404 245 \pm 0.15% (k=2)	404 709 \pm 0.15% (k=2)	404 504 \pm 0.15% (k=2)
Low Range	3 97857 \pm 0.7% (k=2)	3 93710 \pm 0.7% (k=2)	4 00091 \pm 0.7% (k=2)

Connector Angle

Connector Angle to be used in DASY system	203.5° \pm 1°
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