CALIBRATION **CNAS L0570**

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Client :

SRTC

Certificate No: Z21-60307

CALIBRATION CERTIFICATE

Object

DAE4 - SN: 546

Calibration Procedure(s)

FF-Z11-002-01

Calibration Procedure for the Data Acquisition Electronics

(DAEx)

Calibration date:

August 25, 2021

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)℃ and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration	Service of extrasts
Process Calibrator 753	1971018	15-Jun-21 (CTTL, No.J21X04465)	Jun-22	

Calibrated by:

Name **Function** Signature

Yu Zongying

SAR Test Engineer

Reviewed by:

Lin Hao

SAR Test Engineer

Approved by:

Qi Dianyuan

SAR Project Leader

Issued: August 27, 2021

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.

Certificate No: Z21-60307



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DC Voltage Measurement

A/D - Converter Resolution nominal

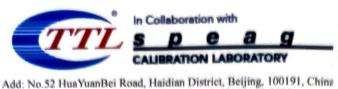
High Range: $1LSB = 6.1\mu V$, full range = -100...+300 mV Low Range: 1LSB = 61nV, full range = -1......+3mV DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	X	Y Z	
High Range	405.359 ± 0.15% (k=2)	404.103 ± 0.15% (k=2)	404.210 ± 0.15% (k=2)
Low Range	3.98630 ± 0.7% (k=2)	3.95606 ± 0.7% (k=2)	3.97757 ± 0.7% (k=2)

Connector Angle

	Connector Angle to be used in DASY system	246° ± 1 °
- 1		

Certificate No: Z21-60307



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Client :

SRTC

Certificate No: Z21-60354

CALIBRATION CERTIFICATE

Object

DAE4 - SN: 720

Calibration Procedure(s)

FF-Z11-002-01

Calibration Procedure for the Data Acquisition Electronics

(DAEx)

Calibration date:

October 08, 2021

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	15-Jun-21 (CTTL, No.J21X04465)	Jun-22

Name

Function

Signature

Calibrated by:

Yu Zongying

SAR Test Engineer

Reviewed by:

Lin Hao

SAR Test Engineer

Approved by:

Qi Dianyuan

SAR Project Leader

Issued: October 10, 2021

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Glossary:

Certificate No: Z21-60354

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

Calibration Factors	X	Y	Z
High Range	403.342 ± 0.15% (k=2)	404.760 ± 0.15% (k=2)	403.216 ± 0.15% (k=2)
Low Range	3.93457 ± 0.7% (k=2)	3.95294 ± 0.7% (k=2)	3.95511 ± 0.7% (k=2)

Connector Angle

Connector Angle to be used in DASY system	297° ± 1 °

Certificate No: Z21-60354 Page 3 of 3