

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

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http://www.caict.ac.cn

Client:

BTL Inc .



Certificate No: Z24-60173

## **CALIBRATION CERTIFICATE**

Object

DAE4 - SN: 1423

Calibration Procedure(s)

FF-Z11-002-01

Calibration Procedure for the Data Acquisition Electronics

(DAEx)

Calibration date:

March 17, 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)℃ and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

018 14-Jun-23 (CTTL, No.J22X0	4180) Jun-24
(	018 14-Jun-23 (CTTL, No.J22X0

Name

**Function** 

Signature

Calibrated by:

Yu Zongying

**SAR Test Engineer** 

+ 1 ×

Reviewed by:

Lin Hao

**SAR Test Engineer** 

10

Approved by:

Qi Dianyuan

SAR Project Leader

Issued: March 19, 2024

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

Certificate No: Z24-60173

Page 1 of 3





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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 = 6.1µ

 $6.1\mu V$ , 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	Υ	Z
High Range	404.534 ± 0.15% (k=2)	404.757 ± 0.15% (k=2)	404.578 ± 0.15% (k=2)
Low Range	3.97938 ± 0.7% (k=2)	4.01024 ± 0.7% (k=2)	4.02051 ± 0.7% (k=2)

## **Connector Angle**

Connector Angle to be used in DASY system	192° ± 1 °
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