



In Collaboration with

**s p e a g**  
CALIBRATION 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 =      6.1μV ,      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          | 404.997 ± 0.15% (k=2) | 405.006 ± 0.15% (k=2) | 404.943 ± 0.15% (k=2) |
| Low Range           | 3.96234 ± 0.7% (k=2)  | 3.98075 ± 0.7% (k=2)  | 3.98717 ± 0.7% (k=2)  |

### Connector Angle

|                                           |           |
|-------------------------------------------|-----------|
| Connector Angle to be used in DASY system | 44° ± 1 ° |
|-------------------------------------------|-----------|