

Purpose

The statement of the conformity of a calibration result is generally evident for the user of the measurement equipment. ISO/IEC 17025:2017 (General requirements for the competence of testing and calibration laboratories) enables calibration laboratories to evaluate the calibration results according to the desires and requirements of the customer.

The statement of conformity of the calibration result regarding a defined specification depends on the conformance probability and the decision rules used. You should adapt the risk of the probability of false decision to the demands of your measurement process.

Therefore, the SCHMIDT Technology Calibration Laboratory offers you two different standard decision rules for DAkkS-accredited calibrations.

SCHMIDT Technology Calibration Laboratory Standard Decision Rules

Standard Decision Rule “Level of Confidence 95 %”

The Standard Decision Rule “Level of Confidence 95 %” ensures a conformance probability of minimum 95 %. The risk of a false decision is less than 5 %.

Standard Decision Rule “Level of Confidence 50 %”

The Standard Decision Rule “Level of Confidence 50 %” ensures a conformance probability of minimum 50 %. Therefore, the acceptance range is wider.



SCHMIDT Technology Standard Decision Rules

U: expanded measurement uncertainty with a coverage probability of 95 %

Pass (accept): calibration object within specification limits

Fail (reject): calibration object out of specification limits

If you do not choose a Decision Rule, we will use for DAkkS-accredited calibrations the rule “Level of Confidence 95 %”. Of course, you can also choose a DAkkS-accredited calibration certificate with the rule “Level of Confidence 50 %” or without Statement of Conformity.

For factory calibrations (ISO calibrations), only the rule “Level of Confidence 50 %” is available.

Specification Limits

We will use our manufacturer specification limits as basis for our decision unless you inform us about your different specification limits (only for DAkkS-accredited calibration).