Decision Rule for Conformity Assessment

The calibration certificate can optionally include a statement of conformity.

Conformity assessment is an additional service to calibration and must be ordered together with the calibration.

A sensor is classified as "compliant" if all measured values are within the acceptance range, within tolerance, or within specification.

To make this statement, the sensor's technical specifications must be provided to the testing laboratory.

The decision regarding "compliant" / "non-compliant" is made in our calibration laboratory according to either rule "A" or "B," as shown in Figure 1:

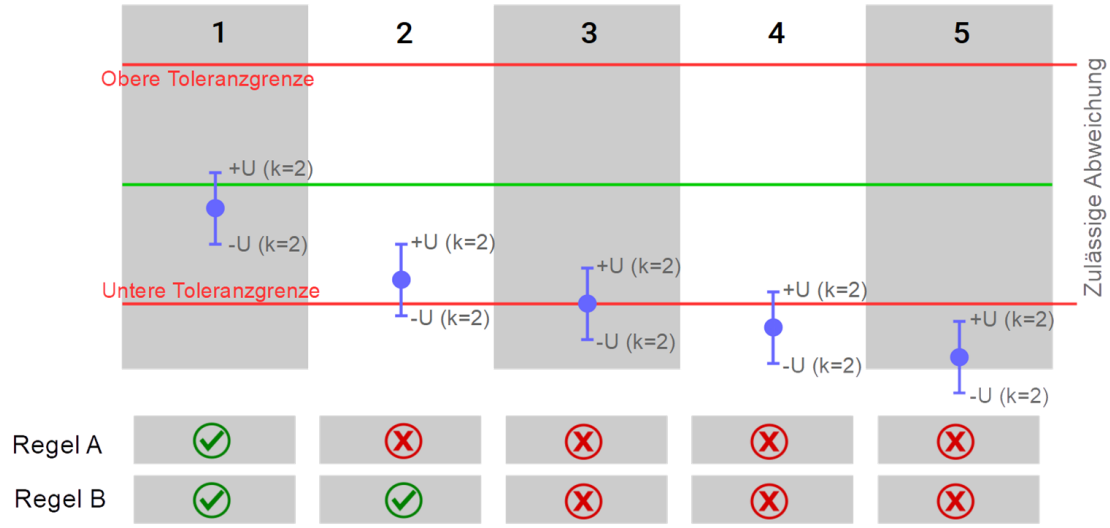

Figure 1: Consideration of measurement uncertainty in decision rules A and B

When applying rule A, the respective measurement uncertainty U is included in the consideration of the specification limits with a confidence level of at least 95%. The measured value in column 1 is within the permissible deviation with a probability >95% and is therefore considered "compliant". The measured values in columns 2 to 5 cannot meet the 95% confidence level. They are non-compliant.

When applying Rule B, the measurement uncertainty is not included in the consideration of the specification limits. This corresponds to a confidence level of at least 50%. The measured values in columns 1 and 2 lie within the permissible deviation with a probability of ³50%. The measured values in columns 3 to 5 cannot maintain the 50% confidence level and are therefore not compliant.

Unless otherwise agreed, conformity assessment is performed according to “Rule B”.

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