Keysight Technologies
Keysight Advantage Services
Guardbanding

Ensure the highest level of measurement confidence

What's a guardband?

Guardband is the offset from the specification that determines the acceptance limit for Pass or Fail decisions, and for performing adjustments. The "Keysight Cal + Uncertainties + Guardbanding" service employs a guardband in the amount of the 95% expanded measurement uncertainty.
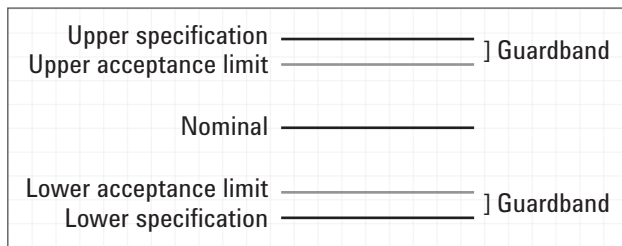

Figure 1. Basic Guardband

How can I learn more?

Read the technical paper "A Pragmatic Method for Pass/Fail Conformance Reporting that Complies with ANSI Z540.3, ISO 17025, and ILAC G8" by Michael Dobbert and Robert Stern. For a copy of the paper visit
www.keysight.com/find/conformancereportingpaper
The article is also available at www.keysight.com/metrology.

Where can guardband measurement data be found for my instrument?

The calibrations that include guardbanding are "Keysight Cal + Uncertainties + Guardbanding" or "Accredited Calibration" or "Standards Lab Calibration." When Keysight Technologies, Inc. performs a calibration that includes guardbanding for your instrument, that information is included in the measurement report. These reports are archived for you at Infoline Web Services.
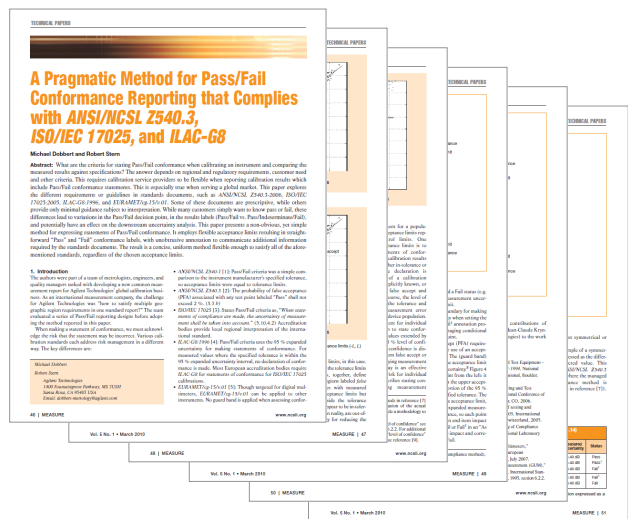
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