

Standard Calibration Criteria – Temperature Offerings

[Decision Rules \(Excluding calibrations working to BS EN ISO6789:2017\)](#)

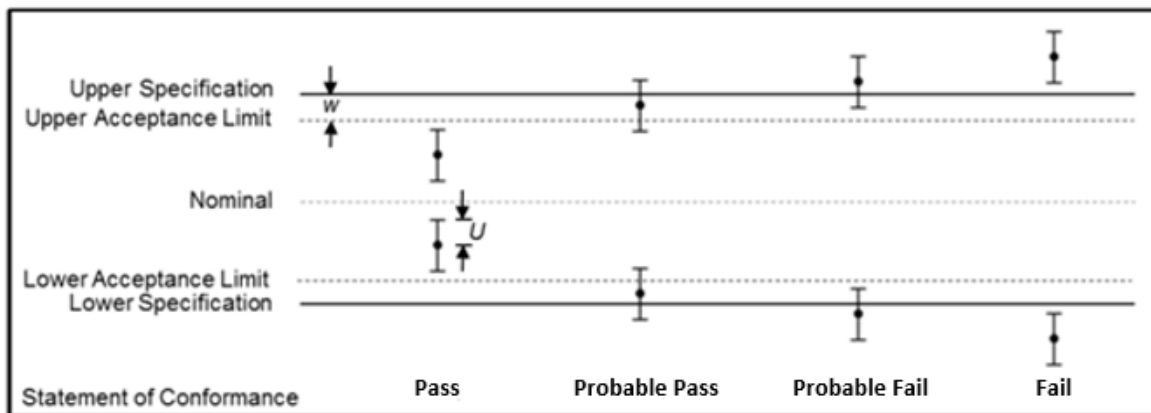
Conformity is reported using guard banding as detailed below:

Result	Symbol	Explanation
Pass ¹	None	The result is within the specified limits provided even when including the measurement uncertainty.
Probable Pass	!	The result is within the specified limits, however when including the measurement uncertainty, the result may be outside of the limits. However, compliance with the specified limits is more likely than non-compliance.
Probable Fail	^	The result is outside the specified limits, however when including the measurement uncertainty, the result may be inside of the limits. However, non-compliance with the specified limits is more likely than compliance.
Fail	F	The result is outside the specified limits provided even when including the measurement uncertainty.
No Conformity	@	The Calibration uncertainty is greater than the specified limit, therefore conformity can not be provided. Calibration will also be marked as limited calibration.

Notes

¹ = The absence of a compliance annotation can also mean that the measurement taken does not have any specified limits. In this instance, the calibration result would also be classified as a “PASS”.

Example of Guard Banding:



U = 95% expanded measurement uncertainty

[Standard Calibration Criteria](#)

- ✓ Calibration certificates will be in an electronic format. It will be digitally signed and emailed to the customer shortly after the completion of the calibration. If particular timescales are required for the provision of the certificate, these must be highlighted at the enquiry stage.
- ✓ Unless otherwise agreed, no allowed tolerances will be given to the instrument.
- ✓ Where an accredited calibration is requested, an indicator **must** be supplied with all temperature probes. Any probes sent for calibration without an indicator will be returned without calibration. Probes without an indicator will be accepted if non-accredited calibration is requested.
- ✓ Calibrations will be performed in a metrology well using the immersion method. Probes that will not fit into a metrology well may be subject to calibration using an environmental chamber (calibration by air). This will be documented on the calibration certificate and will also apply to temperature probes with a length less than 80mm.
- ✓ Calibrations performed using an environmental chamber are outside of our scope of accreditation.
- ✓ Probes must be supplied in a good condition – if received otherwise the item may be returned without calibration. There will still be a charge for this.
- ✓ Unless otherwise specified, calibration will be performed at 0 to 100°C at the following test points:
 - 0, 50 and 100°C followed by a repeat reading at 0°C