

YPG Ltd. Default Calibration Decision Rule for the purpose of product conformity.

Unless a decision rule is specified and agreed with the customer prior to calibration, or is inherent within the specification or standard quoted, then the default YPG Ltd. decision rule will be applied to all calibration work. This rule is derived from a policy of ‘*shared risk*’ as defined by the *Joint Committee for Guides in Metrology: JCGM 106:2012 Section 8.2: Consumer’s and Producer’s Risks*. (Full details can be found via the link below.)

https://www.bipm.org/utis/common/documents/jcgm/JCGM_106_2012_E.pdf

In the YPG Ltd. Laboratory a gauge is measured and is accepted as conforming if the measured value lies within the acceptance interval. The maximum acceptance interval for a gauge measured at YPG Ltd. is set equivalent to the tolerance interval: $A_{LL} = T_{LL}$ and $A_{UL} = T_{UL}$ as shown in Figure 1. When assessing conformity for a gauge of any type manufactured at YPG Ltd. and in the absence of any other agreement or standard, this decision rule is applied. As found results are reported and compared to specification limits, the measurement uncertainty stated on the certificate must therefore be considered by the end user.

Figure 1:

