

Solartron Metrology

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Declaration of Conformity

Solartron standard analogue gauge probes including AX, AT, AG and AJ series products are manufactured, tested, calibrated and individually identified in accordance with the following:

- Probe mechanical and electrical features as detailed in Solartron Sales documentation are confirmed during build or at the final inspection stage. All primary probe functions are checked at 100% control.
- Primary electrical performance is measured at 100% control and output voltage sensitivity, linearity and residual voltage values recorded for each probe.
- Linearity is confirmed by a standard 11 point calibration taken over the total measurement range of the probe in accordance with Solartron engineering specifications ES1031 and ES1007. Maximum error is given as % of reading value and includes output voltage sensitivity error and repeatability.
- Accuracy is a maximum of 0.5% of reading with minimum of 0.5 μm up to $\pm 0.5\text{mm}$ measuring range
minimum of 1.0 μm up to $\pm 1.0\text{mm}$
minimum of 1.5 μm up to $\pm 1.5\text{mm}$
minimum of 2.5 μm up to $\pm 2.5\text{mm}$
minimum of 5.0 μm up to $\pm 5.0\text{mm}$
minimum of 10 μm up to $\pm 10\text{mm}$
- Solartron Metrology is registered to BS EN ISO 9001 certificate number Q09540 and all gauge probes are manufactured in compliance to this with procedures fully documented and available for inspection. Records are kept of all manufacturing batches in accordance with Solartron procedure OP1021 and all probes manufactured are individually identified.
- All measuring equipment used in production test and calibration is individually identified and controlled using a database log in accordance with Solartron work instruction WI1042. This method is also used to control maintenance of production tooling equipment. Measurement equipment and procedures are consistent with ISO10012-1.
- Measuring equipment calibration is traceable to National Standards through either UKAS calibration laboratories or the original equipment manufacturer and includes the calibration requirements of BS 1734:1951 , MOY/SCMI /9 ; BS 10012-1:2003; BS 969:2008 ; in accordance with Solartron procedure OP1022 and instruction WI 1042.



R.Parslow - Quality Manager June 2016