

## **Norbar Standard Calibration Detail for New Devices**

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Issue 1  
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The **Name and Address** details entered on the certificate will be completed using the company name and invoice address as detailed on the sales order acknowledgement.

Where the certificate is for a third party you may request that the third parties name and address appear on the certificate as an On Behalf of address as detailed below.

An **"On Behalf of"** name and address may be specifically requested and will appear on the certificate in addition to the name and address details taken from the sales order acknowledgement, the "On Behalf of" will be detailed on the sales order acknowledgement as "On Behalf of: A. Company".

When an "On Behalf of" is added to a certificate the original and "On Behalf of" addresses will be shortened to allow correct fitting on the certificate, for example:

"CALIBRATION LABORATORY LTD, ON BEHALF OF: RUBBER TYRE CO, MIDDLE ROAD, CARTON, UK."

The **Calibration Method** used will follow the current ISO/BS standard or UKAS approved method used by the laboratory for the type of device to be calibrated.

Torque calibrations to BS7882:2008 will follow the two plane method giving a best achievable class of 0.2. Four plane calibrations with a best achievable class of 0.1 are available on special request.

The current standards and the schedule of accreditation can be viewed on the following link

<http://www.norbar.com/sales-service/ukas-accredited-laboratory.aspx>

The laboratory can be contacted for specific details of particular methods and standards used.

The standard **Calibration Range** and **Units of Measurement** used for:

Torque transducers will be as detailed against the product model number on the sales order acknowledgement.

TruCheck's will be as detailed against the calibration part number, using the primary units marked on the tool.

Torque wrenches will be from 20-100% of full scale using the primary units marked on the tool.

Torque multipliers will be from 20-100% of full scale using the primary units marked on the tool.

Additional readings or alternate units of measure if specifically requested will be detailed on the sale order acknowledgement.

Radius ended torque calibration beams will be measured between +/- 8 degrees from the horizontal on the radius with the deviation from the nominal size given in microns.

Free standing torque calibration beams will be measured and the dimensions of the torque radiuses given in millimetres.

The **Direction of Calibration** will be as follows:

Clockwise for all Transducers except for the following:

Anti-Clockwise only for Annular Transducers showing a clockwise reading (Annular transducers measure reaction torque and are calibrated in the opposite direction to the torque applied).

Clockwise and Anti-Clockwise for Harsh Environment Transducers.

Clockwise for all Torque Multipliers and Torque Wrenches.

Clockwise for Display Instruments except for TTL-HE and T-Box which will be calibrated Clockwise and Anti-Clockwise.

Clockwise and Anti-Clockwise for Torque Calibration Beams.

Additional or alternate directions if specifically requested will be detailed on the sales order acknowledgement.

Transducers and display instruments will be calibrated individually using Norbar laboratory equipment (except for kits), a **System Calibration** if specifically requested will be detailed on the sales order acknowledgement.

Customer specific **References and/or Asset Numbers** may be specifically requested and will appear on the certificate in the comments section, the references and/or asset numbers will be detailed on the sales order acknowledgement as "Certificate note: ABC123".

**Receipt of the sales order acknowledgement will be deemed as acceptance of the above terms, any queries should be brought to Norbar's attention as soon as possible as calibrations may commence shortly after order entry.**