Title: Calibration Of Statimeter Dynamometers

Scope

Work Instruction for the internal calibration of Statimeter dynamometers. To be used in the absence of a manufacturers calibration instruction.

Preparation

Calibration must be carried out using Category A Master instruments as required.
Equipment required;-
1. Load Cell.
2. Load Cell Digital Meter
3. Test Rig

Method

- All calibration results must be entered on the calibration results sheet (See appendix A)
- Carry out preliminary checks, tests 1 and 2.
- Carry out tests 3 to 32 according to whether the U.U.T. is single, dual or Kilo Newton range.
- Complete the results sheet header and enter PASS/FAIL.

- Calibration result sheets must be retained for audit purposes

References

Appendix A Calibration result sheet

Documents
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Title: Calibration Of Magnetic Strength & Polarity Meter Co/Man/130

Appendix A

Calibration Results for Magnetic Strength & Polarity Meter

Model: _____ Serial No: _____

Manufacturer: _____

Date: _____ Result: _____

Lab Temp/RH: _____ Operator: _____

Use: _____ Certificate No: _____

Accuracies quoted are from the manufacturer's specifications or relevant British Standard

Polarity check

Test 1 Is 'P' shown when the meter is placed 20mm above the permanent magnet?
Pass/Fail

Test 2 Is 'E' shown when the meter is placed 20mm above the electro-magnet?
Pass/Fail

Standard Strength Indicator (Hammered Gold)

Test No.	Colour Band Division	True Reading (Gauss)	Allowed Limits (Gauss)	Actual Reading (Gauss)	Result
3	Yellow / Green	40	38 to 42		Pass / Fail
4	Red / Yellow	34	32.3 to 35.7		Pass / Fail

Extra Strength Indicator (Hammered Green)

Test No.	Colour Band Division	True Reading (Gauss)	Allowed Limits (Gauss)	Actual Reading (Gauss)	Result
5	Yellow / Green	75	71.25 to 78.75		Pass / Fail
6	Red / Yellow	67	63.65 to 70.35		Pass / Fail

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