Calibration Certificate

Bartington Instruments Ltd, 10 Thorney Leys Business Park, Witney, Oxon. OX8 7GE, UK

The following measurements were carried out using working standards which are periodically verified, and are traceable to National Physical Laboratory Standards.

Calibration References

Bartington Mag-01 Magnetometer	TE112	Serial No 0288
Bartington Mag Probe B	TE113	Serial No 501
Bartington Solenoid with Current Source	TE18	Serial No 001

Three axis magnetic field sensor under test

Mag-03 MSES Range 70 Serial No 769

Test Results

PARAMETER	SPECIFIED	RESULTS		
		X	Y	Z
Orthogonality Error (°)	MS and MSES versions $(\pm 0.1)^9$ All other versions $\pm 0.5^\circ$	201	201	دن ۱
Offset Error in Zero Field (nT)	Range Offset (µT) (nT) 70 ±5 100 ±5 250 ±12 500 ±25 1000 ±5	+4	- 1 1/2	+ 2
Scaling Error* (@35Hz) (%)	± 0.5 %	203	203	203
Frequency Response** (%)	± 5 %	48	42	49
Noise at 1 Hz (pTrms/√Hz)	Standard - <12 pTrms/√Hz Low noise - <6 pTrms/√Hz	68	54	61

Measured at 35 Hz using a field of 100 μ T pk-pk. *

de de The response at 1 kHz referred to that at 35 Hz.

The measurement uncertainty for the above values is ± 1 LSD

The calibration was measured at 20 (\pm 2) °C

Certified that the above instrument has been fully tested and calibrated to the manufacturers published specifications, due allowance having been made for the uncertainty of the measurements.

NAME MARK GOODEN Date 04/06/04 Signature.