

CERTIFICATE OF CALIBRATION

ISSUED BY: **MKIS** CALIBRATION COMPANY

DATE OF ISSUE: 25 April 2007

CERTIFICATE NUMBER: 1934



0236

STANDARDS LABORATORY

MKIS



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Approved
Signatories

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Signature

Equipment Description:	Counter
Manufacturer:	Thurlby Thandar Instruments Ltd
Type:	PFM 1300
Serial Number:	230096
Order Number:	15763
Customer:	DJB Labcare Limited
Location:	Newport Pagnell
Date Received:	24 April 2007
Date Calibrated:	25 April 2007

The instrument was kept in the laboratory environment for 24 hours, to allow the instrument to stabilise, prior to the tests being carried out.

The ambient temperature and relative humidity throughout the test was $20^{\circ}\text{C} \pm 2^{\circ}\text{C}$ and $50\% \pm 10\%$ respectively.

The uncertainties reported refer to the applied values only with no account being taken of the instruments ability to maintain its calibration.

Remarks: No adjustments were made.

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UKAS Accredited Calibration Laboratory No. 0236

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Function Input	Applied Value	Gate	Indicated Value
Frequency A	10 MHz	0.1 s	10.000 0 MHz
		1 s	10.000 00 MHz
		10 s	10.000 000 MHz
	1 MHz	0.1 s	1.000 00 MHz
		1 s	1.000 000 MHz
		10 s	1.000 000 0 MHz
Frequency B	100 MHz	0.1 s	100.000 MHz
		1 s	100.000 0 MHz
		10 s	100.000 00 MHz
	10 MHz	0.1 s	10.000 0 MHz
		1 s	10.000 00 MHz
		10 s	10.000 000 MHz
Period A	10 kHz	0.1 s	100.000 μ s
		1 s	99.999 9 μ s
	1 kHz	0.1 s	1.000 00 ms
		1 s	999.999 9 μ s

The measurement uncertainties were:

Frequency	1 kHz to 100 kHz	4×10^{-7} to 6×10^{-8}
	100 kHz to 100 MHz	6×10^{-8} to 5×10^{-8}

END

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.