

CERTIFICATE OF CALIBRATION

ISSUED BY: **M K I S** CALIBRATION COMPANY

DATE OF ISSUE: 21 March 2006

CERTIFICATE NUMBER: 1784



0236

STANDARDS LABORATORY

M K I S



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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:	15242
Customer:	D J B Labcare
Location:	Newport Pagnell
Date Received:	10 March 2006
Date Calibrated:	14 March 2006

The instrument was kept in the laboratory environment for 2 Days, 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	10.000 006 MHz
	1 MHz	0.1 s	1.000 00 MHz
		1 s	1.000 000 MHz
		10 s	1.000 000 6 MHz
Frequency B	100 MHz	0.1 s	100.000 MHz
		1 s	100.000 0 MHz
		10 s	100.000 06 MHz
	10 MHz	0.1 s	10.000 0 MHz
		1 s	10.000 00 MHz
		10 s	10.000 006 MHz
Period A	10 kHz	0.1 s	100.000 μ s
		1 s	99.999 4 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.