CERTIFICATE OF CALIBRATION

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UKAS ACCREDITED CALIBRATION LABORATORY NO. 0149

UKAS CALIBRATION
0149

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Approved Signatory
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Submitted By	MED-LAB a Cytek Company Copeland Street Derby DE1 2PU
Engineer	DAVEB
Procedure Number	010007967
Order Number	PC35216
Date Received	25 January 2017
Calibration Date	28 January 2017
Request Recalibration	27 January 2018
Equipment	COMPACT CT7 Tachometer
Serial Number	714000
Owners Identification	
TERID	309685
JobNumber	658605
Conditions of Test	
Temperature	20°C ±1°C
Humidity	43% ±10%

Method Of Test
The instrument was operated in accordance with the manufacturer's instruction manual. All results are recorded in table 1.

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.

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Test 1 Revs per minute

Range	Applied Frequency	Calculated RPM	Unit Under Test	Specification	Uncertainty of Measurement
3 - 99 999RPM	0.500 00 Hz	30.0 RPM	30 RPM	±(0.05% + 1digit)	±(0.001% + 1RPM)
3 - 99 999RPM	0.833 33 Hz	50.0 RPM	50 RPM	±(0.05% + 1digit)	±(0.001% + 1RPM)
3 - 99 999RPM	1.666 66 Hz	100.0 RPM	100 RPM	±(0.05% + 1digit)	±(0.001% + 1RPM)
3 - 99 999RPM	3.333 33 Hz	200.0 RPM	200 RPM	±(0.05% + 1digit)	±(0.001% + 1RPM)
3 - 99 999RPM	5.000 00 Hz	300.0 RPM	300 RPM	±(0.05% + 1digit)	±(0.001% + 1RPM)
3 - 99 999RPM	8.333 33 Hz	500.0 RPM	500 RPM	±(0.05% + 1digit)	±(0.001% + 1RPM)
3 - 99 999RPM	16.666 6 Hz	1 000.0 RPM	1 000 RPM	±(0.05% + 1digit)	±(0.001% + 1RPM)
3 - 99 999RPM	33.333 3 Hz	2 000.0 RPM	2 000 RPM	±(0.05% + 1digit)	±(0.001% + 1RPM)
3 - 99 999RPM	50.000 0 Hz	3 000.0 RPM	3 000 RPM	±(0.05% + 1digit)	±(0.001% + 1RPM)
3 - 99 999RPM	83.333 3 Hz	5 000.0 RPM	5 000 RPM	±(0.05% + 1digit)	±(0.001% + 1RPM)
3 - 99 999RPM	166.666 6 Hz	10 000.0 RPM	10 000 RPM	±(0.05% + 1digit)	±(0.001% + 1RPM)
3 - 99 999RPM	333.333 3 Hz	20 000.0 RPM	20 000 RPM	±(0.05% + 1digit)	±(0.001% + 1RPM)
3 - 99 999RPM	500.000 0 Hz	30 000.0 RPM	30 000 RPM	±(0.05% + 1digit)	±(0.001% + 1RPM)
3 - 99 999RPM	666.666 Hz	40 000.0 RPM	40 000 RPM	±(0.05% + 1digit)	±(0.001% + 1RPM)
3 - 99 999RPM	833.333 Hz	50 000.0 RPM	50 001 RPM	±(0.05% + 1digit)	±(0.001% + 1RPM)
3 - 99 999RPM	1 500.000 Hz	90 000.0 RPM	90 002 RPM	±(0.05% + 1digit)	±(0.001% + 1RPM)
3 - 99 999RPM	1 650.000 Hz	99 000.0 RPM	99 004 RPM	±(0.05% + 1digit)	±(0.001% + 1RPM)

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.