CERTIFICATE OF CALIBRATION

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UKAS ACCREDITED CALIBRATION LABORATORY NO. 0149

UKAS CALIBRATION
0149

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Submitted By	MED-LAB a Cytek Company Copeland Street Derby DE1 2PU
Engineer	DAVEB
Procedure Number	010010153
Order Number	PC35216
Date Received	26 January 2017
Calibration Date	29 January 2017
Request Recalibration	28 January 2018
Equipment	RS 612-029 Tachometer
Serial Number	001772
Owners Identification	
TERID	309686
JobNumber	658606
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 tables 1 and 2.

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 Pulse Output

Range	Applied RPM/Frequency	Output Frequency	Specification	Uncertainty of Measurement
100 - 6 000RPM	200.0 RPM(3.333 3Hz)	200.08 Hz	±1%	±0.03Hz
100 - 6 000RPM	1 000.0 RPM(16.666 6Hz)	1 000.03 Hz	±1%	±0.11Hz
100 - 6 000RPM	3 000.0 RPM(50.000 0Hz)	3 000.0 Hz	±1%	±0.3Hz
100 - 6 000RPM	6 000.0 RPM(100.000 0Hz)	5 999.9 Hz	±1%	±0.7Hz
1 000 - 6 000RPM	1 000.0 RPM(16.666 6Hz)	100.00 Hz	±1%	±0.02Hz
1 000 - 6 000RPM	5 000.0 RPM(83.333 3Hz)	499.99 Hz	±1%	±0.06Hz
1 000 - 6 000RPM	1 000.0 RPM(166.666Hz)	999.97 Hz	±1%	±0.11Hz
1 000 - 6 000RPM	3 000.0 RPM(500.000Hz)	2 999.9 Hz	±1%	±0.3Hz
1 000 - 6 000RPM	6 000.0 RPM(1 000.00Hz)	5 999.8 Hz	±1%	±0.7Hz

Test 2 DC Output

Range	Applied RPM/Frequency	Output Frequency	Specification	Uncertainty of Measurement
100 - 6 000RPM	200.0 RPM(3.333 3Hz)	200.1 mV	±1%	±0.1mV
100 - 6 000RPM	1 000.0 RPM(16.666 6Hz)	1 000.1 mV	±1%	±0.2mV
100 - 6 000RPM	3 000.0 RPM(50.000 0Hz)	2.998 V	±1%	±0.001V
100 - 6 000RPM	6 000.0 RPM(100.000 0Hz)	6.009 V	±1%	±0.002V
1 000 - 6 000RPM	1 000.0 RPM(16.666 6Hz)	99.74 mV	±1%	±0.01mV
1 000 - 6 000RPM	5 000.0 RPM(83.333 3Hz)	499.8 mV	±1%	±0.2mV
1 000 - 6 000RPM	1 000.0 RPM(166.666Hz)	0.999 8 V	±1%	±0.000 2V
1 000 - 6 000RPM	3 000.0 RPM(500.000Hz)	3.002 V	±1%	±0.001V
1 000 - 6 000RPM	6 000.0 RPM(1 000.00Hz)	6.009 V	±1%	±0.002V

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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.