

## CERTIFICATE OF CALIBRATION

Issued by: TechRentals NZ

Certificate Number: 24.1099055  
Date of Calibration: 27 August 2024  
Client Name: CCAT SCIENTIFIC LIMITED  
Address: 711 Weranui Road, Rd1, Silverdale, Auckland, New Zealand  
Unit Under Test(UUT) Description: Tachometer  
Manufacturer: Compact Instruments  
Model Number: 373-998  
Serial Number: 626873  
Cal ID Number: 0002033562

Working Standards Used: 388174

TechRentals Procedure's: 11.1.18

Environmental Condition's: Temperature  $+22.0\text{ }^{\circ}\text{C} \pm 2^{\circ}\text{C}$  RH%  $50.0 \pm 10\%$  Barometric 101.3 kPa

### Comments, Opinions and Interpretations:

The UUT was tested against a strobing reference light source.

### Calibration Information:

- The test results contained in this report relate only to the UUT and any associated source or measure devices as identified above.*
- A Certificate of Calibration does not imply compliance to a specification. Please assess measured values against permissible limits and read the Comments, Opinions and Interpretations, when provided, to determine suitability of the UUT for its intended use.*
- Measurements taken under environmental conditions other than those stated in this report may produce values which differ from those quoted herein.*
- $U$  = Measurement uncertainty +/- (Includes combined uncertainty of the reference and the UUT).*
- The expanded uncertainty limits quoted in the UUT results includes estimated drift and repeatability of the UUT and the reference standard observed during calibration as well as estimated UUT drift over the calibration interval. The estimated UUT drift may be determined from the manufacturer's specifications, historical calibration data or a combination of both.*
- The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of  $k = 2.0$ , providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with M3003 GUM Edition 3 Nov 2012.*

Calibrated by:



Bernard Kriel

Checked by:



John He

Tests marked with an asterisk \* are NOT IANZ ENDORSED & are outside the scope of the laboratory's terms of registration.

This certificate is issued in accordance with the laboratory accreditation requirements of international Accreditation NZ. It provides traceability of measurement to recognised national standards, and to the SI units of measurement realised at the NZ National Standards Laboratory or other national standards laboratories. All tests and activities supporting the preparation of this certificate were performed at its permanent facilities referred to in the footers of this document. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

TechRentals NZ 101A Station Road, Penrose, Auckland. Ph (09)5892030

**Test Results**      Compact Instruments 373-998 Tachometer      **Report No:**      24.1099055

Units	UUT Range	UUT Reading	Reference Value	UUT Correction	Measurement Uncertainty U ±
RPM	3 to 99999	480	480	0	1
		870	870.0	0	1
		1500	1500	0	1
		2700	2700	0	1
		4800	4800	0	1
		8700	8700	0	1
		15000	15000	0	1
		27001	27000	-1	1
		48003	48000	-3	1
		87006	87000	-6	3

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<< End of Report >>