



Issued by  
Trescal Ltd  
Park Gate Close, Bredbury Park Way  
Bredbury, Stockport  
SK6 2SL, UK  
Tel: +44 (0)161 4067878

**APPROVED SIGNATORY**

William Merryman (262)  
(Signed electronically)

**Customer:**  
PPT Group UK Ltd t/a Mecmesin, Newton House, Spring Copse Business Park  
Slindfold, Horsham, West Sussex, RH13 0SZ

**Location of calibration:**  
Trescal Ltd, Park Gate Close, Bredbury Park Way  
Bredbury, Stockport, SK6 2SL, UK

**Equipment Details:**

|                |                         |                      |             |
|----------------|-------------------------|----------------------|-------------|
| Description:   | Speed Verification Tool |                      |             |
| Manufacturer:  | ELV                     | Customer Ref:        | TM0429      |
| Type No:       | LSU 100                 | Date of Receipt:     | 23 Jun 2025 |
|                |                         | Order No:            | 138655-1    |
| Serial No:     | SEQ2879008              | Our Reference:       | 72942510    |
| Calibrated By: | Jack Turner             | Date of Calibration: | 03 Jul 2025 |

**Calibration Summary**

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.  
Assessment of conformance has been undertaken in accordance with the agreed decision rule detailed within this certificate.

**Status on Receipt: Measured Values Only**

No assessment of conformance has been undertaken.

**Status on Despatch: Measured Values Only**

No assessment of conformance has been undertaken.

Action(s) Taken: Full Calibration

**Ambient Conditions:** Temperature: 20  $\pm$  2 °C      Humidity: 35  $\pm$  20 %rh

**Customer requested calibration due date:**

The results given within this certificate only relate to the item calibrated. The expanded uncertainties quoted refer to the measured values only, with no account being taken of the instruments ability to maintain its calibration. The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor  $k = 2$ , which for a normal distribution corresponds to a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

Certificate No. 4690550002

Page 2 of 5

**Agreed and applied Decision Rule used to determine conformance:**

It has been stipulated by the customer that assessment of conformance is not required. (Trescal Rule 0)  
Reference: Trescal document TRE/DEC/0004 Issue 1

**Calibration Equipment Used**

| Asset No | Due Date   | Asset No   | Due Date   |
|----------|------------|------------|------------|
| 120500   | 31/08/2025 | ELect Temp | 30/09/2025 |
| FC224    | 31/07/2025 | FC571      | 01/04/2026 |
| FC628    | 31/01/2026 | FC657      | 31/10/2025 |

*The following information and any identified symbols are used by Trescal in determining the conformance of the device at each measurement point, which is then evaluated in line with the requested decision rule. Where this decision rule is of a "Binary Rule" type then the "Conditional Pass & Fail" statuses are treated as specified by the chosen decision rule. The overall conformance statement determined is given on page one of this certificate.*

Key to results annotations, where applicable

- \* The measurements marked thus have been determined to be outside the specification, due allowance having been made for the expanded uncertainty.
- ! The measurements marked thus are within the specification by a margin less than the expanded uncertainty.
- ^ The measurements marked thus are outside the specification by a margin less than the expanded uncertainty.
- @ The expanded uncertainty is significant in relation to the unit specification and it is therefore not possible to demonstrate conformance unambiguously.
- \$ The measurements marked thus do not lie within the scope of the Laboratory's prevailing UKAS accreditation but are reported herein for completeness.

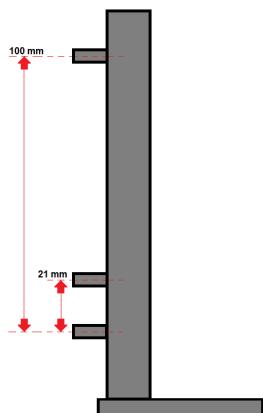
**Basis of Test: Measured Results.**

This instrument has been measured using laboratory standards for the distance between the laser sensors operating the stopwatch (Figure 1), with the datum laser being at the bottom of the column. Repeat readings were taken to determine the accuracy and the measured results reported in the following tables:

| Position reference | Nominal length (mm) | Start position (mm) | Stop position (mm) | Measured length (mm) |
|--------------------|---------------------|---------------------|--------------------|----------------------|
| 1                  | 21                  | 234.901             | 255.977            | 21.076               |
| 2                  | 21                  | 234.902             | 255.994            | 21.092               |
| 3                  | 21                  | 234.899             | 255.983            | 21.084               |
| 4                  | 21                  | 234.905             | 255.998            | 21.093               |
| 5                  | 21                  | 234.894             | 255.981            | 21.087               |
| Mean               |                     | 234.900             | 255.987            | 21.086               |
| Maximum variation  |                     | 0.011               | 0.021              | 0.017                |

| Position reference | Nominal length (mm) | Start position (mm) | Stop position (mm) | Measured length (mm) |
|--------------------|---------------------|---------------------|--------------------|----------------------|
| 1                  | 100                 | 234.901             | 335.337            | 100.436              |
| 2                  | 100                 | 234.902             | 335.339            | 100.437              |
| 3                  | 100                 | 234.899             | 335.337            | 100.438              |
| 4                  | 100                 | 234.905             | 335.335            | 100.430              |
| 5                  | 100                 | 234.894             | 335.339            | 100.445              |
| Mean               |                     | 234.900             | 335.337            | 100.437              |
| Maximum variation  |                     | 0.011               | 0.004              | 0.015                |

Figure 1



The dovetail bracket (Figure 2 & 3) was measured for the distance between faces with the following results:

| Feature          | Position | Nominal Distance (mm) | Measured Results (mm) | Mean Value (mm) | Parallelism (mm) |
|------------------|----------|-----------------------|-----------------------|-----------------|------------------|
| Upwards Distance | 1        | 20.0                  | 20.071                | 20.074          | 0.015            |
|                  | 2        |                       | 20.072                |                 |                  |
|                  | 3        |                       | 20.074                |                 |                  |
|                  | 4        |                       | 20.068                |                 |                  |
|                  | 5        |                       | 20.083                |                 |                  |

| Feature            | Position | Nominal Distance (mm) | Measured Results (mm) | Mean Value (mm) | Parallelism (mm) |
|--------------------|----------|-----------------------|-----------------------|-----------------|------------------|
| Downwards Distance | 1        | 20.0                  | 19.977                | 19.988          | 0.015            |
|                    | 2        |                       | 19.992                |                 |                  |
|                    | 3        |                       | 19.992                |                 |                  |
|                    | 4        |                       | 19.989                |                 |                  |
|                    | 5        |                       | 19.990                |                 |                  |

Figure 2

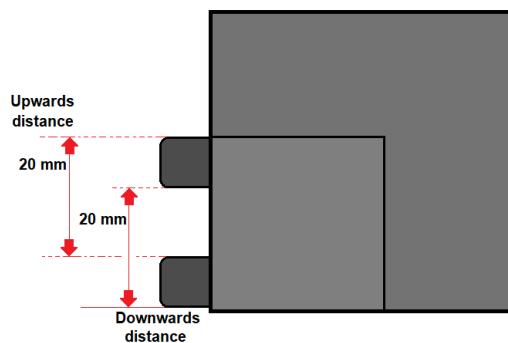
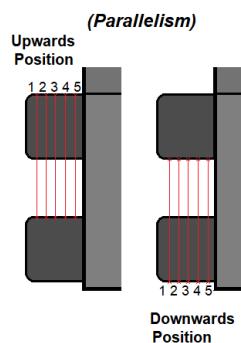


Figure 3



Uncertainty of measurement :  $\pm 0.003$  mm (Linear)  
 $\pm 0.005$  mm (Laser Displacement)

Calibration Procedure : QCD/CALP/18  
 Our Reference : AFD469055

**Calibration Procedure:** The instrument was placed in the laboratory for 24 hours prior to calibration for stabilisation purposes. Tests were made by comparison with a standard counter at the given indications. The equipment was calibrated in a controlled environment using devices having known and traceable values. The uncertainties reported refer to the measured values only with no account being taken of the instrument ability to maintain its calibration.

**Time Checks**

| <u>UUT Indication</u>   | <u>Standard Indication</u> | <u>Standard Equivalent</u> |
|-------------------------|----------------------------|----------------------------|
| 00 hr 00 min 04.994 sec | 4.981 sec                  | 0 min 04.981 sec           |
| 00 hr 00 min 9.987 sec  | 9.963 sec                  | 0 min 9.963 sec            |
| 00 hr 00 min 30.023 sec | 29.991 sec                 | 0 min 29.991 sec           |
| 00 hr 01 min 00.103 sec | 60.086 sec                 | 1 min 00.086 sec           |
| 00 hr 04 min 59.980 sec | 299.967 sec                | 4 min 59.967 sec           |
| 00 hr 9 min 59.988 sec  | 599.949 sec                | 9 min 59.949 sec           |

**The overall uncertainty in the measurement was:**

± 0.10 seconds of indication

**Specification taken from:**

Measured results only

End of Results