

# CERTIFICATE OF CALIBRATION

ISSUED BY MP CALIBRATION SERVICES

DATE OF ISSUE: 29 September 2021

CERTIFICATE NUMBER: 339694



0228

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PAGE 1 OF 1 PAGE (S)

APPROVED SIGNATORY

NAME: D Underwood

SIGNED:

SUBMITTED BY:

DATE OF CALIBRATION: 29/09/2021

CUSTOMER: Mecmesin Ltd Slinfold, West Sussex RH13 0SZ

DESCRIPTION: 150mm Digital Caliper

MANUFACTURER: R.S.

SERIAL NO: TM0416

BASIS OF TEST: BS 887 : 2008

TEMPERATURE: 20 °C ± 2 °C

RESULTS  
OF TEST:

The accuracy of the caliper was checked using the laboratory's master gauge blocks, length bars and comparator. The measured results obtained are detailed below.

<u>FEATURE EXAMINED</u>	<u>TOLERANCE</u>	<u>RESULTS</u>
Flatness of external measuring faces	0.005 mm	0.004 mm
Parallelism of external measuring faces	0.008 mm	0.005 mm
Parallelism of internal measuring faces	0.010 mm	0.004 mm
Squareness of fixed jaw to guiding edge	0.008 mm/25 mm	0.022 mm/25 mm*
Accuracy of readings (External Jaws)	±0.001 in/±0.020 mm	-0.0005 in/-0.010 mm
Repeatability error		Zero
Uncertainty of measurement	±0.010 mm + (0.030 mm x length in metres)	

Note \* indicates any out of specification features

\*N.B. TF/ES 06-10-2021- The failing measurement is not applicable to the use of the caliper with the LTE cal system as such it is still within acceptable limits and the uncertainty calculations remain unchanged.

End of report

This report relates only to the item with the serial number shown above

Decision rule: Unless otherwise requested MP Calibration Services Ltd shall issue a conformity statement based on a binary decision rule (ie. simple acceptance of pass/fail) where the acceptance zone is equal to the tolerance zone stated in the standard used as the basis of test, and a measurement uncertainty which is not greater than the tolerance. Where measurement uncertainty is greater than the tolerance zone it is not possible to state conformity.

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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