CERTIFICATE OF CALIBRATION

Issued by: RS Components Ltd

Date Issued: 13 Sep 2019 Certificate No. 1597611

0310

TM0416

RS Calibration

Calibration and Repair Service

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Paul Frost

Client	MECMESIN LTD HORSHAM WEST SUSSEX RH13 0SZ
Instrument	150 mm Digital Caliper
Serial No.	LIN921706174
Client Reference	N/A
Procedure ID.	D02_1150_150mmDigitalAndDial Rev. P3(Code: 841.2518)
Date of Calibration	13 Sep 2019

Remarks

This calibration is of a new instrument.

The measured results were found to be within the tolerances specified by DIN862-2015-03.

Uncertainties

The reported expanded uncertainties are 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.

RS Components takes its environmental responsibilities very seriously and as such has printed this double sided document in black and white, on paper from sustainable sources.

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service.
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Environment

The ambient temperature and relative humidity throughout the calibration were (20 ± 2) °C and (40 ± 20) %RH respectively.

Calibration

The instrument was held in a temperature controlled environment for a period of not less than 4 hours prior to calibration which was performed using gauge blocks, length bars and in accordance with RS Calibration procedure MLCP01 and the results compared with the tolerances specified by DIN862-2015-03.

Flatness of external faces: 0.002 mm

Parallelism of measuring jaws:

		At 1 mm	At 140 mm
	Internal	0.014 mm	
	External	0.001 mm	0.007 mm

No limits are applied to the above values.
Measurement uncertainties for the above values. ± 0.002 mm

Calibration of Gauge

	Tested Size (mm)	Limits (mm)	Gauge Reading (mm)	Deviation (mm)
External	0.00	+/- 0.02	0.00	0.00
	31.20		31.20	0.00
	61.40		61.40	0.00
	92.60		92.60	0.00
	123.80	+/- 0.03	123.80	0.00
	150.00		150.00	0.00
Internal	50.00	+/- 0.04	50.02	0.02
Step	50.00	+/- 0.04	50.04	0.04
Depth Rod	50.00	+/- 0.04	50.01	0.01
Zero re-check				0.00

Measurement Uncertainty: ± 0.015 mm

End of Calibration

Calibrated by: SRS