

Certificate of Calibration

Issued By TRESICAL Ltd

Date of Issue: 12 October 2015

Certificate Number: 1982670004



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Trescal

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APPROVED SIGNATORY

A handwritten signature in black ink, appearing to read 'Damion Potts'.

.....
Damion Potts

Customer:

Pyser -SGI Limited, Fircroft Way
Edenbridge, , Kent, TN8 6HA

Equipment Details

Description: Stage Micrometer

Manufacturer: Pyser-SGI

Type No: PS8

Date of Receipt: 29/Sep/2015

Order No: 94788

Serial No: CS4629

Our Reference: 00001201

Calibrated By: Rafal Jablonski

Date: 12/Oct/2015

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.

Ambient Conditions Temperature: 20.0 ± 2 °C

Date of next calibration: 12/Oct/2017

The results given within this certificate only relate to the item calibrated. The uncertainty limits quoted refer to the measured values only, with no account being taken of the instrument's ability to maintain its calibration. The reported expanded uncertainty is based upon a standard uncertainty multiplied by a coverage factor k=2 providing a confidence level of approximately 95%. The uncertainty evaluation has been derived from EA-4/2 1999 uncertainty document.

EMS 00004-23-Oct2015

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Instrument Status:	In Tolerance	Out of Tolerance	Malfunctioning	Operational	Damaged	
As Received	X					
As Returned	X					
	Full Calibration	Special Calibration	Operational Verification	Adjusted	Repaired	Returned As Received
Action Taken	X					

Receipt Comments:

Calibration Equipment Used

Asset No

Due Date

FC207

31/10/2016

Customer Instrumentation Includes

ID	Description
1	1 Scale

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Basis of Test: Accuracy requirements of manufacturers published accuracy figures (0.001 mm)

This scale was measured using a laser interferometer with the following results:-

a) The actual distance between the axis of the graduations over three runs

Nominal Position (mm)	Measured Result (mm)			Mean Result (mm)	Variation of Measurements (mm)
	Run 1	Run 2	Run 3		
0.100	0.1000	0.1001	0.1000	0.1000	0.0001
0.200	0.1999	0.2001	0.1999	0.2000	0.0002
0.300	0.3000	0.3000	0.3001	0.3000	0.0001
0.400	0.4001	0.4001	0.4000	0.4001	0.0001
0.500	0.5000	0.5001	0.5002	0.5001	0.0002
0.600	0.6001	0.6001	0.6001	0.6001	0.0000
0.700	0.7001	0.7002	0.7001	0.7001	0.0001
0.800	0.8001	0.7999	0.8002	0.8001	0.0003
0.900	0.9000	0.9001	0.9002	0.9001	0.0002
1.000	1.0001	1.0000	1.0002	1.0001	0.0002

* Denotes outside tolerance

Uncertainty of Measurement ± 0.0005 mm

Calibration Procedure QCD/CALP/52

Our Reference: RJ198267

--End of Results--