

# Certificate of Calibration

Issued By TRESCAL Ltd

Date of Issue: 06 October 2015

Certificate Number: 1983230002



Trescal Ltd  
Park Gate Close, Bredbury Park Way  
Bredbury, Stockport,  
SK6 2SL, UK  
Tel: +44(0) 161 406 7878  
Fax: +44(0) 161 406 7979  
Email: calibration.manchester@trescal.com

Page 1 of 3

APPROVED SIGNATORY



.....  
Mark Brewer

**Customer:**

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

**Equipment Details**

Description: Stage Micrometer

Manufacturer: Pyser-SGI

Type No: S78

Date of Receipt: 29/Sep/2015

Range: 1.0 x 0.01 mm

Order No: 94785

Serial No: SC2884

Our Reference: 00001201

Calibrated By: Stephen Smith

Date: 03/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:** 03/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

# Certificate of Calibration

Issued By TRESCAL Ltd

Certificate Number:

1983230002

UKAS Accredited Calibration Laboratory

0013

Page 2 of 3

**Instrument Status:** In Tolerance Out of Tolerance Malfunctioning Operational Damaged

**As Received**

**As Returned**

Full Calibration

Special Calibration

Operational Verification

Adjusted

Repaired

Returned  
As Received

**Action Taken**

## Receipt Comments:

### Calibration Equipment Used

Asset No	Due Date
FC207	31/10/2016
FC207a	31/10/2016

<h1>Certificate of Calibration</h1> <p>Issued By TRESCAL Ltd</p>			Certificate Number 1983230002
UKAS Accredited Calibration Laboratory 0013			Page 3 of 3

**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	0.0999	0.1001	0.1000	0.1000	0.0002
0.200	0.2000	0.2000	0.2000	0.2000	0.0000
0.300	0.2999	0.3001	0.3000	0.3000	0.0002
0.400	0.3999	0.4001	0.4001	0.4000	0.0002
0.500	0.4998	0.5000	0.5000	0.4999	0.0002
0.600	0.5998	0.6000	0.6001	0.6000	0.0003
0.700	0.6999	0.7001	0.7000	0.7000	0.0002
0.800	0.8000	0.8000	0.8001	0.8000	0.0001
0.900	0.8999	0.9001	0.9000	0.9000	0.0002
1.000	0.9998	0.9999	0.9999	0.9999	0.0001

\* Denotes outside tolerance

Uncertainty of Measurement  $\pm 0.0005$  mm

Calibration Procedure QCD/CALP/52  
Our Reference: SS198323

--End of Results--