### **Certificate of Calibration**

Issued By TRESCAL Ltd

Date of Issue:

06 October 2015

Certificate Number:

1983230005



Trescal Ltd

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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:

SC2885

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

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1983230005

UKAS Accredited Calibration Laboratory

0013

Page 2 of

3

Instrument Status:

In Tolerance

Out of Tolerance

Malfunctioning Operational

Damaged

As Received

X

As Returned

Operational Verification

Adjusted

Repaired

Returned As Received

**Action Taken** 

Full Calibration

**Receipt Comments:** 

Calibration Equipment Used

Asset No

**Due Date** 

FC207

31/10/2016

FC207a

31/10/2016

# Certificate of Calibration

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UKAS Accredited Calibration Laboratory

2013

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	()	(11111)
0.100	0.1001	0.0999	0.0999	0.1000	0.0002
0.200	0.2000	0.1999	0.1999	0.1999	0.0001
0.300	0.2999	0.3000	0.3002	0.3000	0.0003
0.400	0.4001	0.4001	0.4000	0.4001	0.0001
0.500	0.5002	0.5001	0.5001	0.5001	0.0001
0.600	0.6002	0.6001	0.6000	0.6001	0.0002
0.700	0.7003	0.7001	0.7001	0.7002	0.0002
0.800	0.8002	0.8001	0.8001	0.8001	0.0001
0.900	0.9002	0.9000	0.9001	0.9001	0.0002
1.000	1.0002	1.0002	1.0001	1.0002	0.0001

<sup>\*</sup> Denotes outside tolerance

Uncertainty of Measurement

 $\pm~0.0005~mm$ 

Calibration Procedure

QCD/CALP/52

Our Reference:

SS198323

--End of Results--