

CERTIFICATE OF CALIBRATION



Issued by: RS Components Ltd

Date Issued: 11 Jun 2010

Certificate No.

1181588



Calibration and Repair Service

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Martyn Tiney

Client	Viamed Keighley West Yorkshire BD20 7DT
Instrument	Digitron P200UL.is 0 to 100 mbar Digital Manometer
Serial No.	420720660
Client Reference	CE149
Procedure ID.	388.3555 Rev. P3
Date of Calibration	11 Jun 2010
Performance Status	Pass

Equipment Used to Carry Out Calibration

Ruska Deadweight Tester
Weights

Equipment ID.

Cal 711
Cal 713, 714

The measurements reported in this certificate were carried out using equipment whose values are traceable to national standards.

All procedures employed and results reported are in compliance with the requirements of the International Standard ISO/IEC 17025:2005.

The management controls of the RS Calibration Laboratory are registered under the British Standard BS EN ISO 9001 : 2000 No. RS 00362.

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%.

This certificate reports recorded values for the instrument 'As Received'.



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The ambient temperature and relative humidity throughout the calibration were $(20 \pm 2) ^\circ\text{C}$ and $(50 \pm 10) \% \text{RH}$ respectively.

The instrument was calibrated using a dead weight pressure standard, applying a set mass to achieve nominal values of gauge pressure and recording the instrument's displayed values.

Prior to calibration the instrument was exercised to full scale pressure and then returned to zero.

The pressure medium used was nitrogen.

Range	Applied Value	Instrument Reading	Deviation as % of F.S.	L.S.D Stability
100 mbar	0 mbar	0.00 mbar	0.00	0
	30 mbar	30.1 mbar	0.10	0
	50 mbar	50.2 mbar	0.20	0
	75 mbar	75.3 mbar	0.30	1
	100 mbar	100.4 mbar	0.40	0

Measurement uncertainty of the above recorded values: $\pm (0.01\% + 1 \text{ L.S.D})$

END OF CALIBRATION

CALIBRATED BY:- MNT

Compliance to Specification

The specification published by the manufacturer and found in the instrument's handbook has been used to determine performance at the measured points.

Reported values

The uncertainties quoted refer to the applied values, which include any identified contribution of the instrument under test and not to the ability of the instrument to maintain its calibration.