

# CERTIFICATE OF CALIBRATION



Issued by: RS Components Ltd

Date Issued: 18 May 2009

Certificate No.

1138802

## RS Calibration

Calibration and Repair Service

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Martyn Tiney

Client	Viamed Keighley West Yorkshire BD20 7DT
Instrument	Digitron P200L i.s. 0 to 500 mbar Digital Manometer
Serial No.	10198
Client Reference	CE091 (ID 102075)
Procedure ID.	188.1175 Rev. P2
Date of Calibration	18 May 2009
Performance Status	Pass

Equipment Used to Carry Out Calibration	Equipment ID.
Ruska Deadweight Tester	Cal 711
Weights	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 500 mbar	Applied Value	Instrument Reading	Deviation as % of F.S.	L.S.D. Stability
Lo	0 mbar	0.0 mbar	0.00	0
	100 mbar	100.0 mbar	0.00	0
	190 mbar	190.2 mbar	0.04	0
Hi	300 mbar	300 mbar	0.00	0
	400 mbar	400 mbar	0.00	0
	500 mbar	500 mbar	0.00	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.