

# CERTIFICATE OF CALIBRATION



Issued by: RS Components Ltd

Date Issued: 17 Aug 2011

Certificate No.

1231021

## RS Calibration

Calibration and Repair Service

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DPN 175, Lammas Rd,  
Weldon Industrial Est  
Corby, Northants, NN17 9RS

Tel: 01536 405545

Fax: 01536 401590

Antony Cavanagh

|                     |   |
|---------------------|---|
| Client              | VIAMED<br>KEIGHLEY<br>WEST YORKSHIRE<br>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 | 17 Aug 2011   |
| Performance Status  | Pass  |

### Equipment Used to Carry Out Calibration

### Equipment ID.

Ruska Deadweight Tester  
Weights

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 : 2008 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  $(50 \pm 20) \% \text{RH}$  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 |
|----------|---------------|--------------------|------------------------|------------------|
| 500 mbar | Lo            |                    |                        |                  |
|          | 0 mbar        | 0.0 mbar           | 0.00                   | 1                |
|          | 100 mbar      | 99.9 mbar          | 0.02                   | 0                |
|          | 190 mbar      | 190.1 mbar         | 0.02                   | 0                |
| Hi       | 300 mbar      | 300 mbar           | 0.00                   | 0                |
|          | 400 mbar      | 400 mbar           | 0.00                   | 0                |
|          | 500 mbar      | 500 mbar           | 0.00                   | 1                |

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

## END OF CALIBRATION

CALIBRATED BY:- ACC

### 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.