

# CERTIFICATE OF CALIBRATION

Issued by: RS Components Ltd

Date Issued: 11 Apr 2017

Certificate No.

1478153



**RS Calibration**

Calibration and Repair Service

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Simon Perkins

Client	VIAMED LTD KEIGHLEY WEST YORKSHIRE BD20 7DT
Instrument	Digitron P200UL.is 0 to 100 mbar Digital Manometer
Serial No.	530569434
Client Reference	CE178 ID674700
Procedure ID.	388.3555 Rev. P4
Date of Calibration	11 Apr 2017
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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## Environment

The ambient temperature and relative humidity throughout the calibration were  $(20 \pm 2) ^\circ\text{C}$  and  $(40 \pm 20) \% \text{RH}$  respectively.

## Method

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 Gauge	Applied Value	Instrument Indicated	Percentage of Tolerance	L.S.D Stability
100 mbar Lo Hi	0 mbar	0.00 mbar	0 %	0
	30 mbar	30.1 mbar	34 %	1
	50 mbar	50.2 mbar	62 %	0
	75 mbar	75.2 mbar	55 %	1
	100 mbar	100.2 mbar	50 %	1

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

## **END OF CALIBRATION**

**CALIBRATED BY:- SPP**

## 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.