

CERTIFICATE OF CALIBRATION



Issued By Airflow Measurements Ltd

Date of Issue 14 April 2021

Certificate Number N/37248

0690



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Page 1 of 2

Approved Signatory

M Nuttall ☐

C Slater ☒

A Leonard ☐

M Slater ☐

Customer : Commissioning Validation Solutions Ltd
34 Thorneycroft, Leigh
LANCS, WN7 2TH

Date Received : 12 April 2021

Instrument : System ID : A21732413
Description : Multifunction Tester
Manufacturer : TSI
Model Number : TA465-P
Serial Number : TA4652008005
Procedure Number & Version : 1402 : 001/Pa

Job Number : IR111104

Environmental Conditions

Temperature : $20^{\circ}\text{C} \pm 2^{\circ}\text{C}$
Relative Humidity : $50\%\text{RH} \pm 10\%\text{RH}$

Mains Voltage : $240\text{V} \pm 10\text{V}$
Mains Frequency : $50\text{Hz} \pm 1\text{Hz}$

Comments

Instrument stabilised in a controlled environment prior to calibration
Instrument cleaned and serviced prior to final calibration

Calibration Information

The instrument was calibrated against laboratory standards whose values are traceable to recognised National Standards. The uncertainty limits quoted refer to the measured values only, with no account being taken of the instruments ability to maintain its calibration.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

Calibrated By : C Slater

Date of Calibration : 14 April 2021

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UKAS Accredited Calibration Laboratory No. 0690

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Page 2 of 2

AS FOUND RESULTS

Test Title	Tolerance	Applied Value	Reading
Pressure tests Rising			
0 Pa	1Pa	0.0Pa	0.0Pa
500 Pa	6Pa	500.0Pa	501.1Pa
1000 Pa	11Pa	1000.0Pa	1002.9Pa
1500 Pa	16Pa	1500.0Pa	1504.5Pa
2000 Pa	21Pa	2000.0Pa	2005.9Pa
2500 Pa	26Pa	2500.0Pa	2507.1Pa
3000 Pa	31Pa	3000.0Pa	3009.1Pa
3500 Pa	36Pa	3500.0Pa	3511.1Pa

Pressure tests Falling

3500 Pa	36Pa	3500.0Pa	3511.1Pa
3000 Pa	31Pa	3000.0Pa	3009.2Pa
2500 Pa	26Pa	2500.0Pa	2507.1Pa
2000 Pa	21Pa	2000.0Pa	2006.1Pa
1500 Pa	16Pa	1500.0Pa	1504.7Pa
1000 Pa	11Pa	1000.0Pa	1003.1Pa
500 Pa	6Pa	500.0Pa	501.2Pa
0 Pa	1Pa	0.0Pa	0.0Pa

Velocity by Pressure substitution at STP. (K=1.00)

0.0 Pa	0.01m/s	0.0m/s	0.00m/s
15.0 Pa	0.085m/s	5.0m/s	5.03m/s
60.0 Pa	0.16m/s	10.0m/s	10.05m/s
135.0 Pa	0.23m/s	15.0m/s	15.07m/s
240.0 Pa	0.31m/s	20.0m/s	20.09m/s
375.0 Pa	0.38m/s	25.0m/s	25.11m/s
540.0 Pa	0.46m/s	30.0m/s	30.14m/s

End of Data

END OF TEST DATA

Uncertainties

Gas Pressure : 0 Pa - 100 kPa +/- 0.050 % + 1 Pa