

CERTIFICATE OF CALIBRATION

Issued By Airflow Measurements Ltd

Certificate Number N/37263

Date of Issue 16 April 2021



Airflow Measurements Ltd
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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 :	A21732415	Job Number :	IR111106
	Description :	Balometer	Customer Ref :	
	Manufacturer :	TSI		
	Model Number :	PH731		
	Serial Number :	PH7312011003		
	Procedure Version	001/PF		

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
'Back Pressure Compensation' & 'Anti Swirl Devices' were disabled

Traceability Information

Instrument Description	Serial Number	Certificate Number	Cal. Date	Cal. Period
Standard Micromanometer 5K	AFM0048 058323	16676	30/10/2020	52
Standard Micromanometer 500Pa	AFM0046 084029	16677	30/10/2020	52

Calibrated By : C Slater

Date of Calibration 16 April 2021

This certificate provides traceability of measurement to recognised National standards, and to the units of measurements realised at the National Physical Laboratory or other recognised National standards laboratories. Copyright of this certificate is owned by the issuing laboratory and may not be reproduced except with the prior written approval of the issuing laboratory.

This certificate complies with the requirements of BS EN ISO 10012:2003.

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AS FOUND RESULTS

Test Title	Tolerance	Applied Value	Reading	Pass / Fail
Supply m³/hr				
0m³/hr	12m³/hr	0m³/hr	0m³/hr	PASS
400m³/hr	32.2m³/hr	373m³/hr	369m³/hr	PASS
800m³/hr	44m³/hr	767m³/hr	787m³/hr	PASS
1200m³/hr	55.9m³/hr	1163m³/hr	1203m³/hr	PASS
1600m³/hr	67.9m³/hr	1563m³/hr	1618m³/hr	PASS
2000m³/hr	79.6m³/hr	1954m³/hr	2014m³/hr	PASS
2400m³/hr	90.3m³/hr	2310m³/hr	2367m³/hr	PASS
2800m³/hr	101.3m³/hr	2676m³/hr	2742m³/hr	PASS
3200m³/hr	112.4m³/hr	3047m³/hr	3121m³/hr	PASS

Exhaust m³/hr

0m³/hr	12m³/hr	0m³/hr	0m³/hr	PASS
400m³/hr	32.2m³/hr	373m³/hr	382m³/hr	PASS
800m³/hr	44m³/hr	767m³/hr	777m³/hr	PASS
1200m³/hr	55.9m³/hr	1163m³/hr	1156m³/hr	PASS
1600m³/hr	67.9m³/hr	1563m³/hr	1538m³/hr	PASS
2000m³/hr	79.6m³/hr	1954m³/hr	1910m³/hr	PASS
2400m³/hr	90.3m³/hr	2310m³/hr	2297m³/hr	PASS
2800m³/hr	101.3m³/hr	2676m³/hr	2655m³/hr	PASS
3200m³/hr	112.4m³/hr	3047m³/hr	3019m³/hr	PASS

End of Data

END OF TEST DATA

Uncertainties

Air Vel 0.1 - 1mps : +/- 0.1% + 0.125m/s plus 1 digit of resolution
Air Vel 1 - 2mps : +/- 0.1% + 0.125m/s plus 1 digit of resolution
Air Vel 2 - 10mps : +/- 0.25% + 0.15m/s plus 1 digit of resolution
Air Vel 10 - 30mps : +/- 0.25% + 0.20m/s plus 1 digit of resolution
Gas Pressure : 0 Pa - 100 kPa +/- 0.050 % + 1 Pa
Air Flow : +/-3% + 10m³/hr