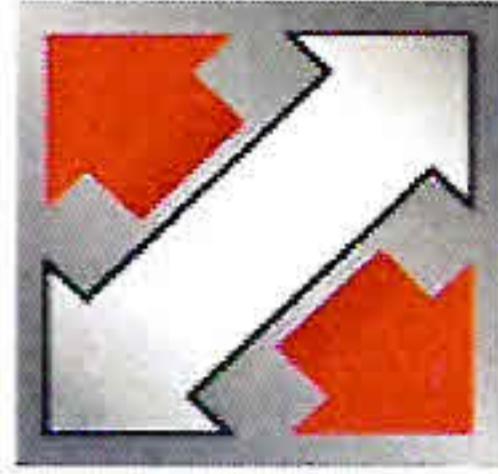


CERTIFICATE OF CALIBRATION

Issued By Pullman Instruments (UK) Ltd.
Date of Issue 10 October 2023

Certificate Number 1599882



www.pullman.co.uk

Pullman Instruments (UK) Ltd.
ESG House,
Chatsworth Road,
Harrogate, HG1 5HX
Tel 01423 720360 Email info@pullman.co.uk

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Approved Signatory

M.Kendall G.Firth J.Stacey A.J.Cox M. Conboy

Customer : VIAMED LTD
15 STATION ROAD, KEIGHLEY
CROSS HILLS, WEST YORKSHIRE BS20 7DT

Date Received : 10 October 2023

| | | |
|---------------------|---------------------------------|--------------------------|
| Instrument : | System ID : 4040 2229 009 | Job Number : 506084-1 |
| Description : | Thermal Mass Flow Meter Hi Flow | Ref Number : 40402229009 |
| Manufacturer : | TSI | Site : |
| Model Number : | 4040 | Location : |
| Serial Number : | 40402229009 | |
| Procedure Version | 4169v1/S | |

Environmental Conditions

| | | | |
|---------------------|---------------|-------------------|------------|
| Temperature : | 20°C ± 2°C | Mains Voltage : | 230V ± 20V |
| Relative Humidity : | 50%RH ± 15%RH | Mains Frequency : | 50Hz ± 1Hz |

Comments

No calibration adjustments or repairs were made to unit.
Measurements traceable to national standards.
Unit tested to manufacturers specification.

Traceability Information

| Instrument Description | Serial Number | Certificate Number | Cal. Date | Cal. Period |
|---------------------------------------|----------------------|---------------------------|------------------|--------------------|
| FC096-200L CM186 Laminar Element 600 | 1611213 | 0580/25589 | 30/06/2023 | 104 |
| FC096-E20L CM50 Laminar Element 20lpr | 0203181 | 25456 | 06/06/2023 | 52 |

Calibrated By : M.Conboy

Date of Calibration : 10 October 2023

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.

CERTIFICATE OF CALIBRATION

Certificate Number
1599882

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AS FOUND RESULTS

| Test Title | Tolerance | Applied Value | Reading | Pass / Fail |
|---------------------|-----------|---------------|---------|-------------|
| Test Results | | | | |

Air temperature at time of test:- 20.8C

Air humidity at time of test:- 54%rH

Air pressure at time of test:- 100.9kPa

Test gas used:- Air (corrected for GAS)

Barometric Pressure

| | | | | |
|--------|------|----------|----------|------|
| 100kPa | 1kPa | 100.0kPa | 100.5kPa | PASS |
|--------|------|----------|----------|------|

Temperature @ 50lpm

| | | | | |
|------|-----|--------|--------|------|
| 20°C | 1°C | 20.0°C | 20.2°C | PASS |
|------|-----|--------|--------|------|

Flow

| | | | | |
|---------|---------|----------|----------|------|
| 0 l/m | 0.05lpm | 0.00lpm | 0.00lpm | PASS |
| 50 l/m | 1lpm | 50.00lpm | 49.89lpm | PASS |
| 100 l/m | 2lpm | 100.0lpm | 99.4lpm | PASS |
| 200 l/m | 4lpm | 200.0lpm | 198.7lpm | PASS |
| 300 l/m | 6lpm | 300.0lpm | 298.6lpm | PASS |

End of Results

END OF TEST DATA

Uncertainties

Gen / Meas Pressure : 0.08%Fs (C261) +/-0.05%Fs (C230) +/- 0.075%Fs (C141)

Gas Flow 0-200L/min : ±0.35% fsd

Simulate / Meas Temp : +/-0.05%rdg +/-0.05°C