

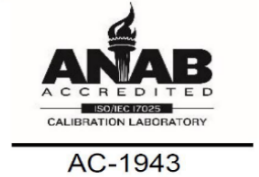
Certificate of Gauge Calibration

Issued by: **Wohler Retrotec EU B.V.**
Calibration Date: **2025-07-15**

Certificate Number: **409618 020815**
Results: **As Left**



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This calibration laboratory has been assessed by the ANSI National Accreditation Board and meets the requirements of international standard ISO/IEC 17025.

Instrument:

Description: Pressure and Flow Gauge
Manufacturer: Retrotec
Model Number: DM32 10A
Serial Number: 409618
Firmware Version: 2.5 Build 53B1

Authorized by: Alex Peelle

A handwritten signature in black ink, appearing to read "Alex P".

Signature

Reference Device:

Furness Controls: FCO560 SN1902363
Due: 2026-03-23

Calibrated by: Max Kabel

A handwritten signature in black ink, appearing to read "Max Kabel".

Signature

Issue Date: 2025-07-15

Environmental conditions:

Temperature: 22.2°C
Relative Humidity: 50% ±30%

Comments:

Results recorded as received. No adjustment performed.
This calibration applies only to the unit listed on this certificate.

Calibration Information:

The Device was calibrated against laboratory standards whose values are traceable to The International System of Units (SI). The uncertainty represents an expanded uncertainty using a coverage factor of $k=2$ to approximate a 95% confidence level. In tolerance conditions are based on test results falling within specified limits without taking uncertainty into account. The uncertainty evaluation has been carried out in accordance with ISO/IEC 17025 requirements.

Calibration Procedure:

CP-35-01

This Calibration Certificate shall not be reproduced except in full, without written approval from Retrotec.

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Calibration Results

| Channel A | | |
|--------------------|--------------|-----------|
| Applied Value (Pa) | Reading (Pa) | Error (%) |
| -2399.64 | -2413.77 | 0.59 |
| -1200.00 | -1206.50 | 0.54 |
| -600.08 | -602.48 | 0.40 |
| -299.99 | -301.15 | 0.39 |
| -99.94 | -100.28 | 0.34 |
| -74.95 | -75.15 | 0.27 |
| -50.02 | -50.11 | 0.18 |
| -24.93 | -25.00 | 0.28 |
| -10.00 | -10.00 | 0.00 |
| -0.01 | 0.00 | N/A |
| 10.01 | 10.05 | 0.40 |
| 25.00 | 25.10 | 0.40 |
| 50.00 | 50.15 | 0.30 |
| 75.00 | 75.24 | 0.32 |
| 100.00 | 100.35 | 0.35 |
| 300.09 | 300.90 | 0.27 |
| 600.09 | 601.52 | 0.24 |
| 1200.00 | 1202.64 | 0.22 |
| 2399.96 | 2403.35 | 0.14 |

| Channel B | | |
|--------------------|--------------|-----------|
| Applied Value (Pa) | Reading (Pa) | Error (%) |
| -2399.64 | -2412.59 | 0.54 |
| -1200.00 | -1206.60 | 0.55 |
| -600.08 | -602.48 | 0.40 |
| -299.99 | -301.15 | 0.39 |
| -99.94 | -100.28 | 0.34 |
| -74.95 | -75.15 | 0.27 |
| -50.02 | -50.10 | 0.16 |
| -24.93 | -25.02 | 0.36 |
| -10.00 | -9.99 | 0.10 |
| -0.01 | -0.03 | N/A |
| 10.01 | 10.04 | 0.30 |
| 25.00 | 25.13 | 0.52 |
| 50.00 | 50.19 | 0.38 |
| 75.00 | 75.30 | 0.40 |
| 100.00 | 100.37 | 0.37 |
| 300.09 | 300.79 | 0.23 |
| 600.09 | 601.29 | 0.20 |
| 1200.00 | 1202.10 | 0.18 |
| 2399.96 | 2403.88 | 0.16 |

Instrument display resolution is 0.1 Pa.

Uncertainties

Calibration and measurement capability (Expanded Uncertainty) is 0.066% of reading + 0.42 Pa (Range 0 - 2 400 Pa) based on a 95% confidence interval, using coverage of k=2. In tolerance conditions are based on test results falling within specified limits without taking uncertainty into account.



Initial

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Disclaimer: opinions and interpretations are outside the scope of accreditation.

The pressure range uncertainty limits are compliant with (meets or exceeds requirements from) the following standards or guidelines:

| Name | Accuracy Requirements | Expiration Date |
|-------------|---|-----------------|
| NFPA 2001 | ± 1 Pa \pm (0 to 50 Pa) | 2026-07-15 |
| EN13829 | ± 2 Pa (up to ± 60 Pa) | 2030-07-15 |
| ATTMA: TS1 | ± 2 Pa (up to ± 100 Pa) | 2026-07-15 |
| ASTM E779 | $\pm 5\%$ or 0.25 Pa whichever is greater | 2030-07-15 |
| ASTM-E3158 | $\pm 1\%$ or 0.25 Pa whichever is greater | 2030-07-15 |
| CGSB 149.10 | ± 1 Pa (up to ± 60 Pa) | 2030-07-15 |
| FD P50-784 | $\pm 1\%$ or 1 Pa whichever is greater | 2026-07-15 |
| ISO14520 | ± 1 Pa (up to ± 60 Pa) | 2030-07-15 |
| EN15004 | ± 1 Pa (up to ± 100 Pa) | 2030-07-15 |
| USACE | $\pm 1\%$ or 0.25 Pa \pm (25 to 250) Pa | 2027-07-15 |
| TITLE 24 | $\pm 1\%$ or 0.2 Pa whichever is greater | 2026-07-15 |
| RESNET380 | $\pm 1\%$ or 0.25 Pa whichever is greater | 2026-07-15 |
| ISO9972 | ± 1 Pa (up to ± 100 Pa) | 2030-07-15 |
| FD E51-767 | $\pm 2.5\%$ or 3 Pa whichever is greater | 2027-07-15 |
| RE2020 | $\pm 3\%$ or 0.5 Pa \pm (50 to 200) Pa | 2027-07-15 |

End of report