

Certificate of Gauge Calibration

Issued by: **Wohler Retrotec EU B.V.**

Calibration Date: **2025-07-15**

Certificate Number: **500253 022803**

Results: **As Left**

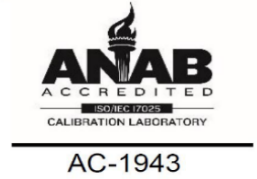


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This calibration laboratory has been assessed by the ANSI National Accreditation Board and meets the requirements of international standard ISO/IEC 17025.

Instrument:

Description: Pressure and Flow Gauge
Manufacturer: Retrotec
Model Number: DM32X 10A
Serial Number: 500253
Firmware Version: 1.1.5|A12-3D

Authorized by: Alex Peelle

Signature

Reference Device:

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

Calibrated by: Max Kabel

Signature

Issue Date: 2025-07-15

Environmental conditions:

Temperature: 22.3°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 (%)
-2399.54	-2407.64	0.34
-1199.90	-1204.39	0.37
-600.11	-601.75	0.27
-300.09	-300.86	0.26
-99.91	-100.20	0.29
-74.98	-75.12	0.19
-50.03	-50.05	0.04
-24.98	-25.00	0.08
-9.99	-9.98	0.10
0.05	0.06	N/A
10.05	10.07	0.20
24.98	25.11	0.52
50.01	50.21	0.40
75.01	75.35	0.45
99.99	100.40	0.41
300.03	301.04	0.34
600.01	601.94	0.32
1200.05	1203.54	0.29
2399.75	2405.71	0.25

Channel B		
Applied Value (Pa)	Reading (Pa)	Error (%)
-2399.54	-2406.84	0.30
-1199.90	-1204.18	0.36
-600.11	-601.69	0.26
-300.09	-300.76	0.22
-99.91	-100.08	0.17
-74.98	-75.17	0.25
-50.03	-50.08	0.10
-24.98	-25.02	0.16
-9.99	-10.01	0.20
0.05	0.05	N/A
10.05	9.99	0.60
24.98	25.08	0.40
50.01	50.15	0.28
75.01	75.32	0.41
99.99	100.42	0.43
300.03	300.97	0.31
600.01	601.74	0.29
1200.05	1202.85	0.23
2399.75	2404.53	0.20

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