



Energoflow AG

Ultrasonic Gas Flow Meters GFA

Next Generation Flow Metering for Natural Gas

Experience and reliability

>10 years on the market
Experience, Expertise
& Efficiency

Industry & Competence

Flow measurement
and monitoring solutions
for gases and liquids
based on ultrasonic
technology

Global Reach

Clients throughout the
globe
Wide range of
industries &
applications

Constant Innovation

Leading developer and
provider of
measurement
technologies and
process solutions

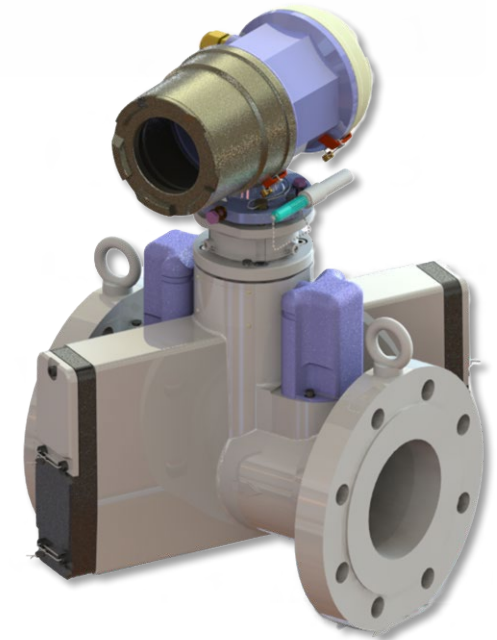
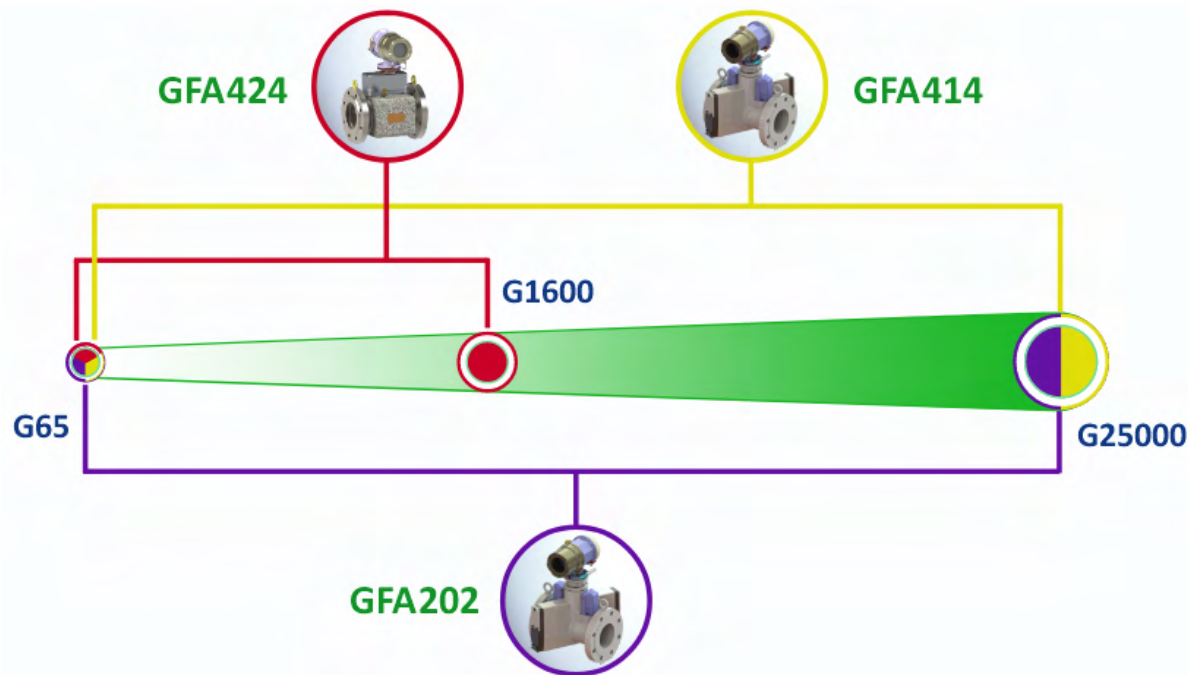
EnergoFlow AG specialises in ultrasonic flow metering technology for gas and liquid measurement. Founded in Switzerland with a global customer base, the company delivers innovative, reliable, and cost-effective metering solutions for custody transfer, industrial, and utility applications.

Mission: To deliver state-of-the-art flow metering solutions that combine Swiss engineering quality with long-term reliability and minimal operating cost.



GFA Ultrasonic Gas Meter Product Line

- ✓ A new generation of smart meters with the full range of industrial flow rates (line sizes) from G65 up to G25000.
- ✓ GFA 424 ultrasonic gas meters are not susceptible to effects of local resistances.
- ✓ Unified electronic unit and two types of sensors for the entire product line - allow economical production
- ✓ unified software – simplifies operation and training of personal



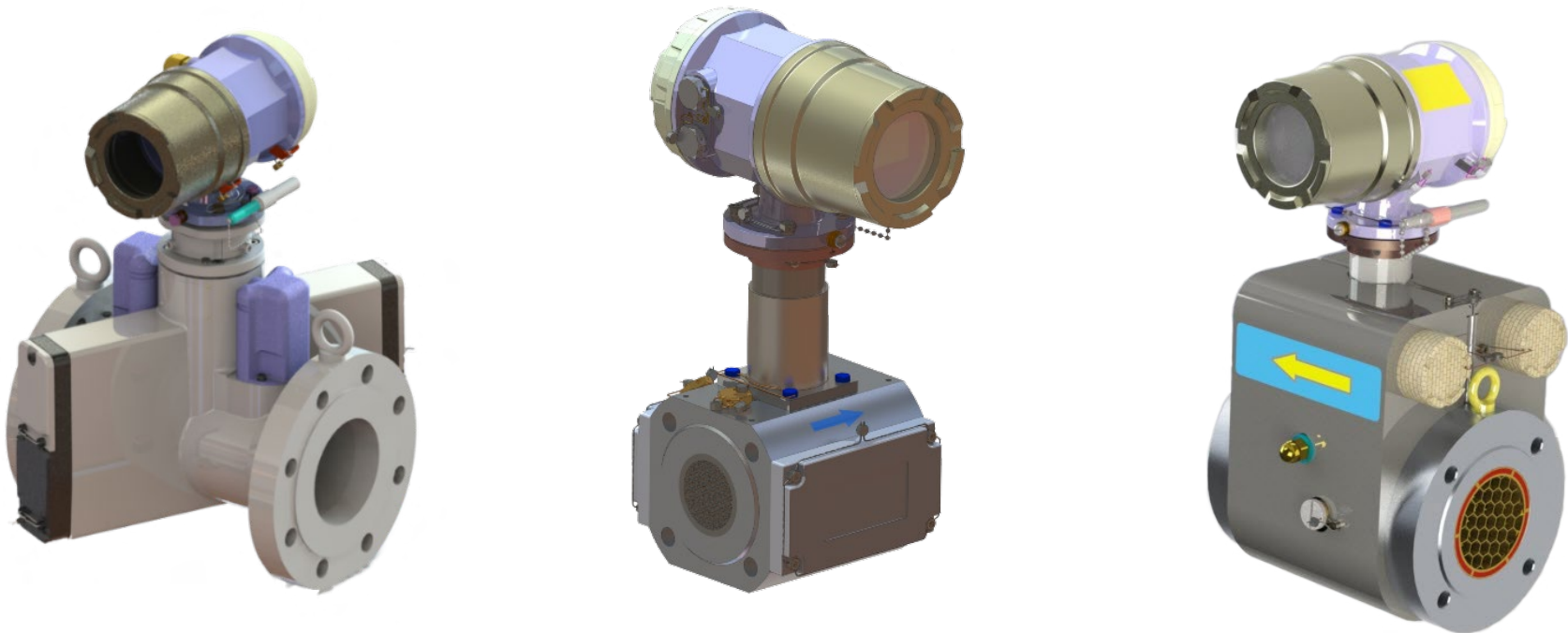
GFA 202 / GFA 414



The GFA Family at a Glance



Three models, one unified platform — each optimised for specific application requirements



The GFA Family at a Glance



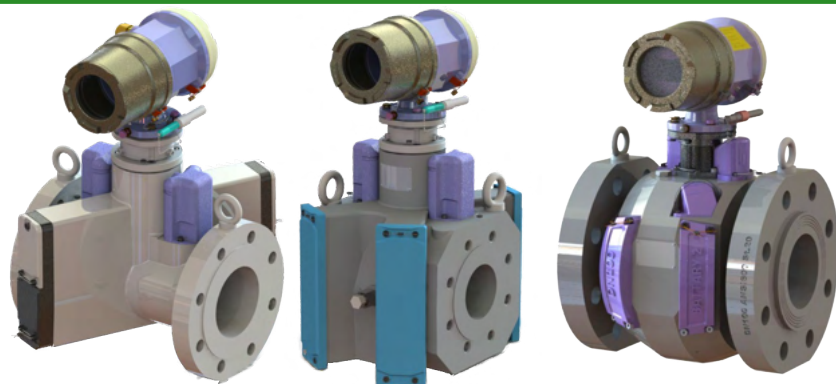
Three models, one unified platform — each optimised for specific application requirements

Feature	GFA202	GFA414	GFA424
Ultrasonic Channels	2	4	4
Nominal Sizes (DN)	50 – 600	50 – 600	50 – 200
Flow Ratings (G)	G65 – G25000	G100 – G25000	G100 – G1600
Max Operating Pressure	25 MPa	25 MPa	2 MPa
Accuracy Class	1 (MID)	0.5 (OIML) / 1 (MID)	0.5 (OIML) / 1 (MID)
Straight Runs (upstream/downstream)	10D / 3D	10D / 3D	✦ NONE
Bidirectional Flow	✓ Yes	✓ Yes	— No
Integrated PTZ Corrector	Optional	Optional	Optional
Battery Life	≥ 5 years	≥ 5 years	≥ 5 years
Compliance with EU Directives	✓ ATEX / MID / PED/ EMC	✓ ATEX / MID / PED/ EMC	✓ ATEX / MID / PED/ EMC

✦ *GFA424: Zero straight pipe requirement — first of its kind with Class 0.5 accuracy*



GFA202 GAS METER



Features

- power supply from the built-in battery or from an external source
- graphic local display
- recorded data and parameters are saved in non-volatile memory
- data transfer to an automated data acquisition system via external modem
- communication with external devices via RS-485 digital interface (Modbus RTU protocol)

Specification

Item	Value
The permissible limits of relative error in gas measurement under operating conditions are as follows: from Q_t (inclusive) to Q_{max} (inclusive) from Q_{min} (inclusive) to Q_t	$\pm 1\%$ $\pm 2\%$
Max operating pressure, MPa	1,6; 2,5; 4,0; 6,3; 10; 16; 25
Minimum gauge pressure in the pipeline, MPa	0
Basic absolute accuracy of the temperature measurement channel, °C, not more than	$\pm 0,2$
Overall accuracy of the pressure measurement channel, %, not more than	$\pm 0,1$
Output signal:	frequency-pulse type "dry contact"
Wireless communication	External Nb-IoT or GSM/GPRS

Item	Value
Power supply: - autonomous - external	lithium batteries 14 Ah 7.2V service life - up to up to 5 years* power supply 12 VDC
Parameters of the data exchange interface with external equipment: - exchange protocol	ModBus RTU
- exchange rate, bits/s	1200;2400;4800; 9600;19200; 38400; 57600; 115200
- communication line length, m, not more than	for RS-485 – up to 120
Enclosure protection class according to IEC 60529	IP67
Explosion protection level (ATEX) :	II 2(1)G Ex db ib [ia Ga] IIC T4 Gb

*without using a modem

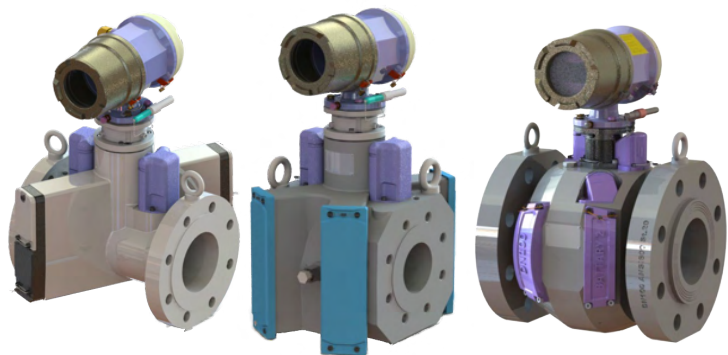
GAS METER GFA202

Volumetric flow measurement ranges



DN	Meter standard size	Volumetric flow rate, m3/h				Measuring ranges $Q_{min} \cdot Q_{max}$
		threshold Q_{thr}	minimal Q_{min}	transitional Q_t	maximum Q_{max}	
50	G65	0,2	1	12,5	100	1:100
	G100				160	1:160
	G160				250	1:250
80	G160	0,5	2,5	32,5	250	1:100
	G250				400	1:160
	G400				650	1:250
100	G250	0,8	4,0	50,0	400	1:100
	G400				650	1:160
	G650				1000	1:250
150	G400	2,0	10,0	125,0	650	1:65
	G650				1000	1:100
	G1000				1600	1:160
	G1600				2500	1:250
200	G650	3,2	16,0	200,0	1000	1:65
	G1000				1600	1:100
	G1600				2500	1:160
	G2500				4000	1:250
250	G1000	5,0	25,0	325,0	1600	1:65
	G1600				2500	1:100
	G2500				4000	1:160
	G4000				6500	1:250
300	G1600	8,0	40,0	500,0	2500	1:65
	G2500				4000	1:100
	G4000				6500	1:160
	G6500				10000	1:250
400	G2500	12,8	64,0	800,0	4000	1:65
	G4000				6500	1:100
	G6500				10000	1:160
	G10000				16000	1:250
500	G4000	20,0	100,0	1250,0	6500	1:65
	G6500				10000	1:100
	G10000				16000	1:160
	G16000				25000	1:250
600	G6500	32,0	160,0	2000,0	10000	1:65
	G10000				16000	1:100
	G16000				25000	1:160
	G25000				40000	1:250

GFA414 GAS METER



Features

- power supply from the built-in battery or from an external source
- graphic local display
- 4 ultrasonic measurement channels
- recorded data and parameters are saved in non-volatile memory
- data transmission with external modem
- communication with external devices RS-485 digital interface (Modbus RTU protocol)

Specification

Item	Value	
The permissible limits of relative error in gas measurement under operating conditions are as follows: from Qt (inclusive) to Qmax (inclusive) from Qmin (inclusive) to Qt	Class 0,5*	Class 1
	$\pm 0,5\%$ $\pm 1\%$	$\pm 1\%$ $\pm 2\%$
Max operating pressure, MPa	1,6; 2,5; 4,0; 6,3; 10; 16; 25	
Minimum gauge pressure in the pipeline, MPa	0	
Basic absolute accuracy of the temperature measurement channel, °C, not more than	$\pm 0,2$	
Overall accuracy of the pressure measurement channel, %, not more than	$\pm 0,1$	
Output signal:	frequency-pulse type "dry contact"	
Meter size	DN 80 and above	

* for DN 80 mm at least

Item	Value
Power supply: - autonomous - external	lithium batteries 14 Ah 7.2V service life - up to up to 5 years** power supply 12 VDC
Parameters of the data exchange interface with external equipment: - exchange protocol	ModBus RTU
- exchange rate, bits/s	1200;2400;4800; 9600;19200; 38400; 57600; 115200
- communication line length, m, not more than	for RS-485 – up to 120
Enclosure protection class according to IEC 60529	IP67
Explosion protection level (ATEX) :	II 2(1)G Ex db ib [ia Ga] IIC T4 Gb

**without using a modem

GFA414 GAS METER

Volumetric flow measurement ranges

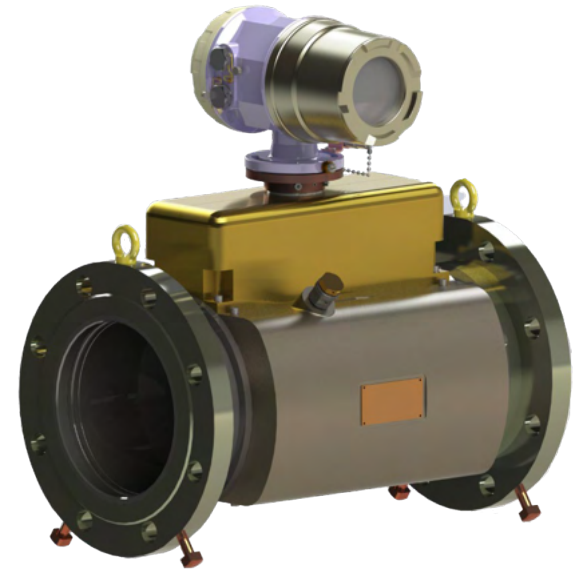
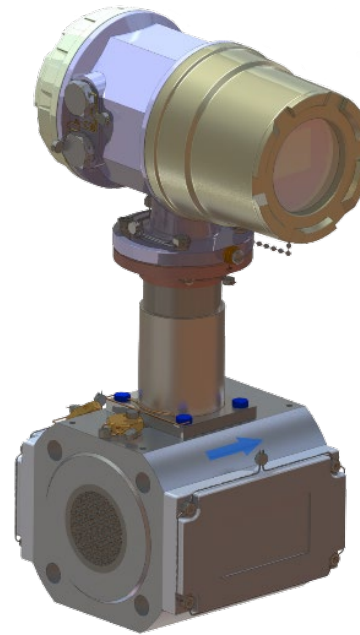


DN	Meter standard size	Volumetric flow rate, m ³ /h				Measuring ranges $Q_{min}:Q_{max}$
		threshold Q_{thr}	minimal Q_{min}	transitional Q_t	maximum Q_{max}	
50	G65	0,2	1	12,5	100	1:100
	G100				160	1:160
	G160				250	1:250
80	G160	0,5	2,5	32,5	250	1:100
	G250				400	1:160
	G400				650	1:250
100	G250	0,8	4,0	50,0	400	1:100
	G400				650	1:160
	G650				1000	1:250
150	G400	2,0	10,0	125,0	650	1:65
	G650				1000	1:100
	G1000				1600	1:160
	G1600				2500	1:250
200	G650	3,2	16,0	200,0	1000	1:65
	G1000				1600	1:100
	G1600				2500	1:160
	G2500				4000	1:250
250	G1000	5,0	25,0	325,0	1600	1:65
	G1600				2500	1:100
	G2500				4000	1:160
	G4000				6500	1:250
300	G1600	8,0	40,0	500,0	2500	1:65
	G2500				4000	1:100
	G4000				6500	1:160
	G6500				10000	1:250
400	G2500	12,8	64,0	800,0	4000	1:65
	G4000				6500	1:100
	G6500				10000	1:160
	G10000				16000	1:250
500	G4000	20,0	100,0	1250,0	6500	1:65
	G6500				10000	1:100
	G10000				16000	1:160
	G16000				25000	1:250
600	G6500	32,0	160,0	2000,0	10000	1:65
	G10000				16000	1:100
	G16000				25000	1:160
	G25000				40000	1:250

GFA 424 : The latest addition to the GA Family



To be launched internationally in November 2026



GFA424 – The Latest Innovation: No Straight Runs needed



✦ **WORLD FIRST: 0.5% accuracy class gas meter requiring NO upstream or downstream straight pipes**



Measurement Channels	4 (unidirectional)
Line Sizes	DN 50 to DN 200
Flow Ranges	1–160 m ³ /h (DN50) to 16–2,500 m ³ /h (DN200)
Accuracy Class	MID Class 1 / OIML Class 0.5
ATEX marking	II 2(1)G Ex db ib [ia Ga] IIC T4 Gb
Straight Pipes Required	 NONE – OD inlet / OD outlet
Max Operating Pressure	PN16 (16 bar) / ANSI 150 (20 bar)
Volume Correction	Optional: PTZ/TZ · SGERG88 · NX-19 · GERG91
Installation	Horizontal or vertical · Retrofit-ready
Ingress protection	IP67
Power	Battery ≥5 yr or 9–15 VDC external

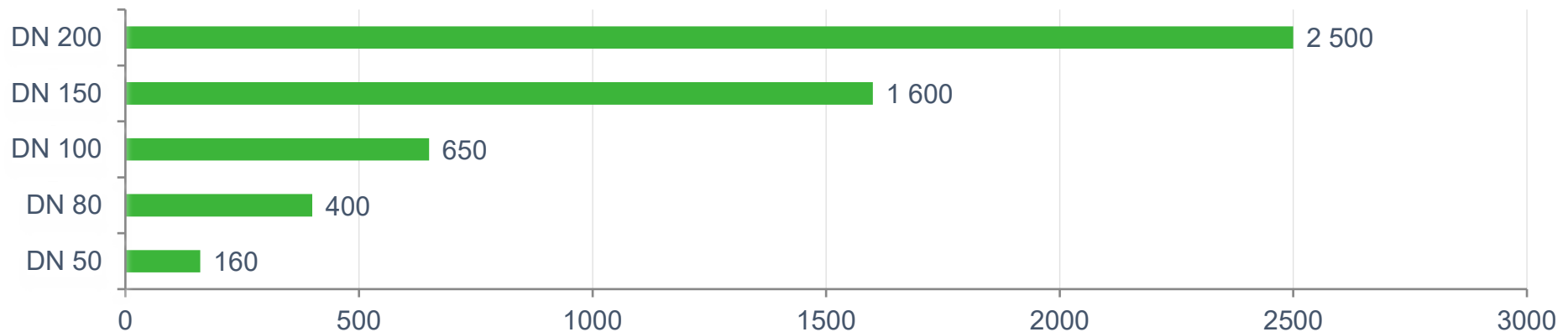
Perturbances in flow do not affect the measurement

GFA424 – Flow Measurement Ranges



GFA424 covers DN 50 to DN 200, offering flow ranges suitable for distribution, commercial and industrial metering stations:

Nominal Size	Min Flow Q _{min} (m ³ /h)	Max Flow Q _{max} (m ³ /h)	Rangeability	Typical Applications
DN 50	1	160	1:160	Small commercial / industrial connections
DN 80	2.5	400	1:160	Medium commercial / gas distribution branches
DN 100	4	650	1:160	Industrial facilities / metering stations
DN 150	10	1,600	1:160	Large industrial / gas distribution stations
DN 200	17	2,500	1:160	High-capacity distribution / measuring stations



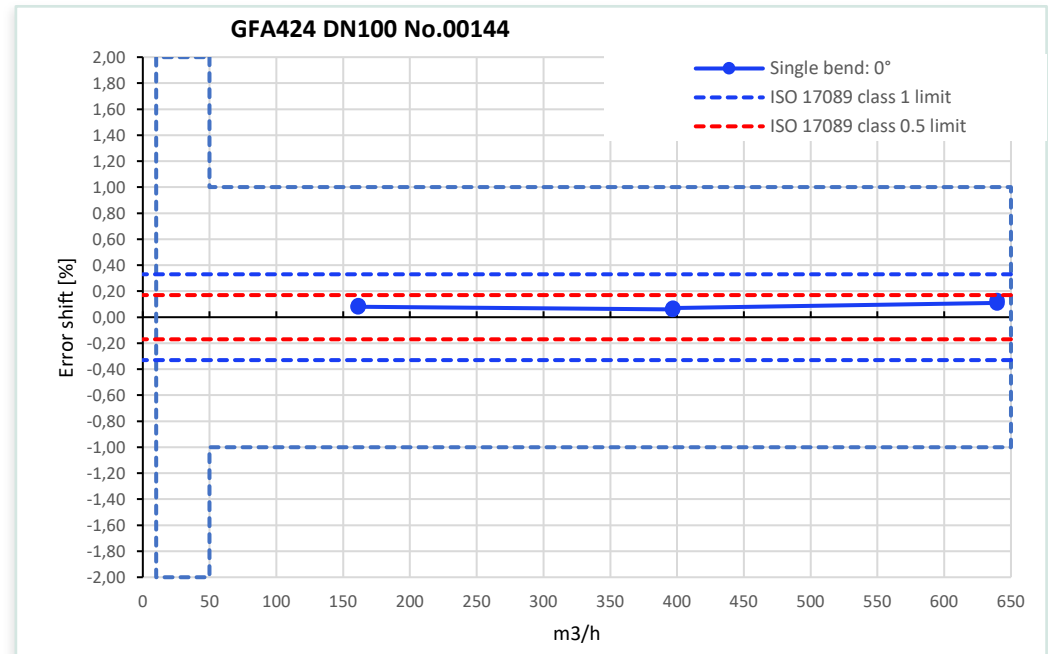
Test Results: Measurement Error vs. Local Resistance



Tests were continued for GFA424 meters with sizes DN80, DN100 and DN150 which showed similar results. The accuracy curve for GFA424 DN100 with a **single bend 0°** local resistance variant is shown below.



GFA424 DN100 No. 00144



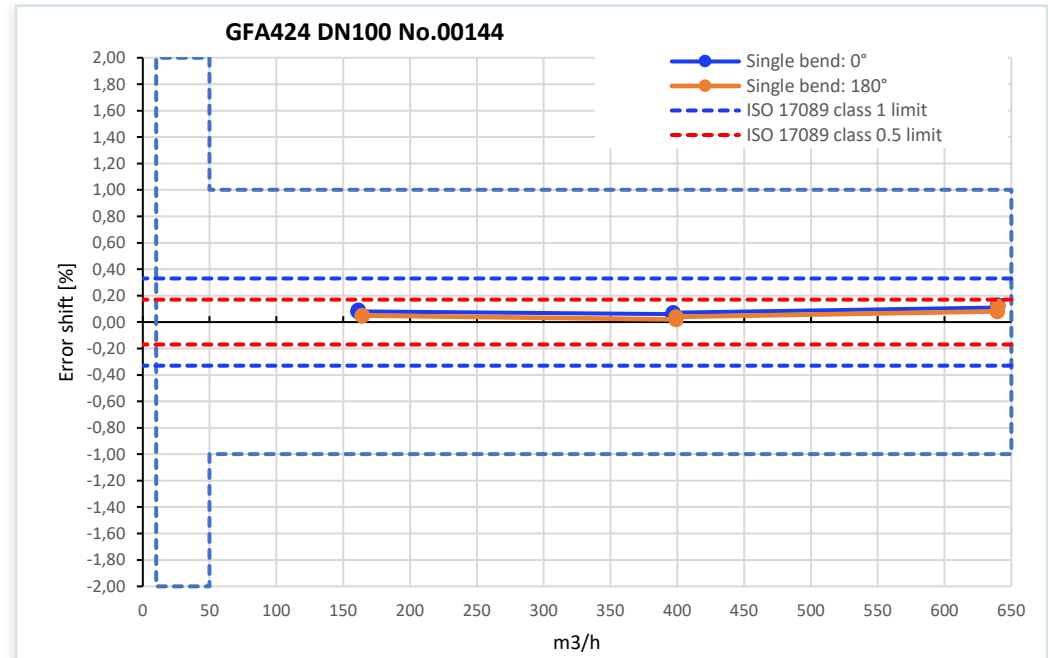
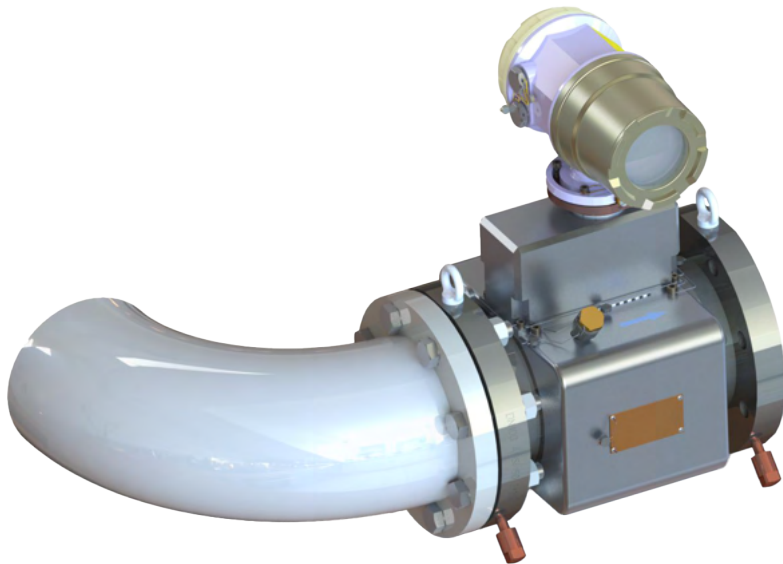
Key results:

- Proven Class 0.5 compliance – error limit: $\pm 0.5\%$ ✓
- All 5 local resistance configurations per AGA-9 & ISO 17089-1 & OIML R137-1&2 tested ✓
- Strong repeatability across all line sizes ✓
- No straight sections required — meter installed directly after disturbance ✓
- **Pressure drop on flow rate 650 m³/h – 3,2 kPa ✓**

Test Results: Measurement Error vs. Local Resistance



The accuracy curve for GFA424 DN100 with a **single bend 180°** local resistance variant is shown below.



GFA424 DN100 No. 00144

Key results:

- Proven Class 0.5 compliance – error limit: $\pm 0.5\%$ ✓
- All 5 local resistance configurations per AGA-9 & ISO 17089-1 & OIML R137-1&2 tested ✓
- Strong repeatability across all line sizes ✓
- No straight sections required — meter installed directly after disturbance ✓
- **Pressure drop on flow rate 650 m³/h – 3,2 kPa ✓**

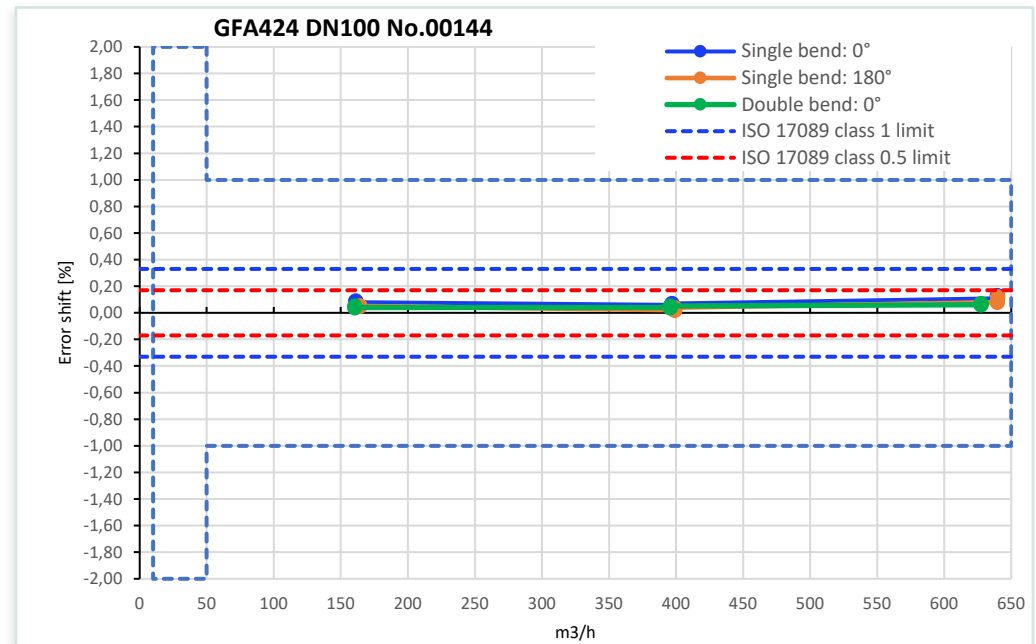
Test Results: Measurement Error vs. Local Resistance



The accuracy curve for GFA424 DN100 with a **double bend 0°** local resistance variant is shown below.



GFA424 DN100 No. 00144



Key results:

- Proven Class 0.5 compliance – error limit: $\pm 0.5\%$ ✓
- All 5 local resistance configurations per AGA-9 & ISO 17089-1 & OIML R137-1&2 tested ✓
- Strong repeatability across all line sizes ✓
- No straight sections required — meter installed directly after disturbance ✓
- **Pressure drop on flow rate 650 m³/h – 3,2 kPa ✓**

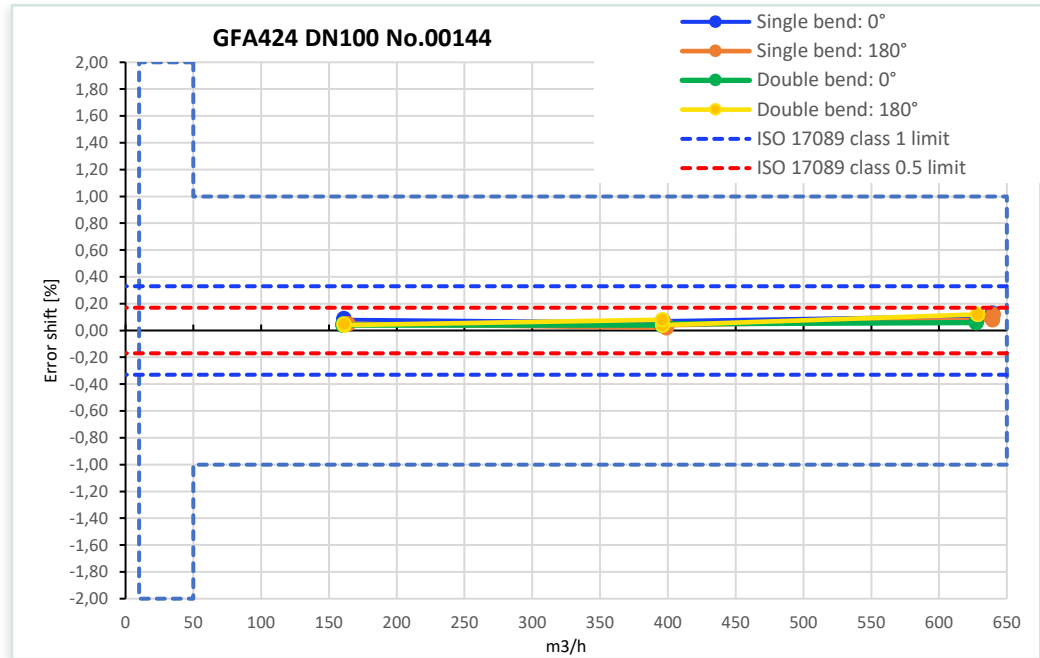
Test Results: Measurement Error vs. Local Resistance



The accuracy curve for GFA424 DN100 with a **double bend 180°** local resistance variant is shown below.



GFA424 DN100 No. 00144



Key results:

- Proven Class 0.5 compliance – error limit: $\pm 0.5\%$ ✓
- All 5 local resistance configurations per AGA-9 & ISO 17089-1 & OIML R137-1&2 tested ✓
- Strong repeatability across all line sizes ✓
- No straight sections required — meter installed directly after disturbance ✓
- Pressure drop on flow rate 650 m³/h – 3,2 kPa ✓

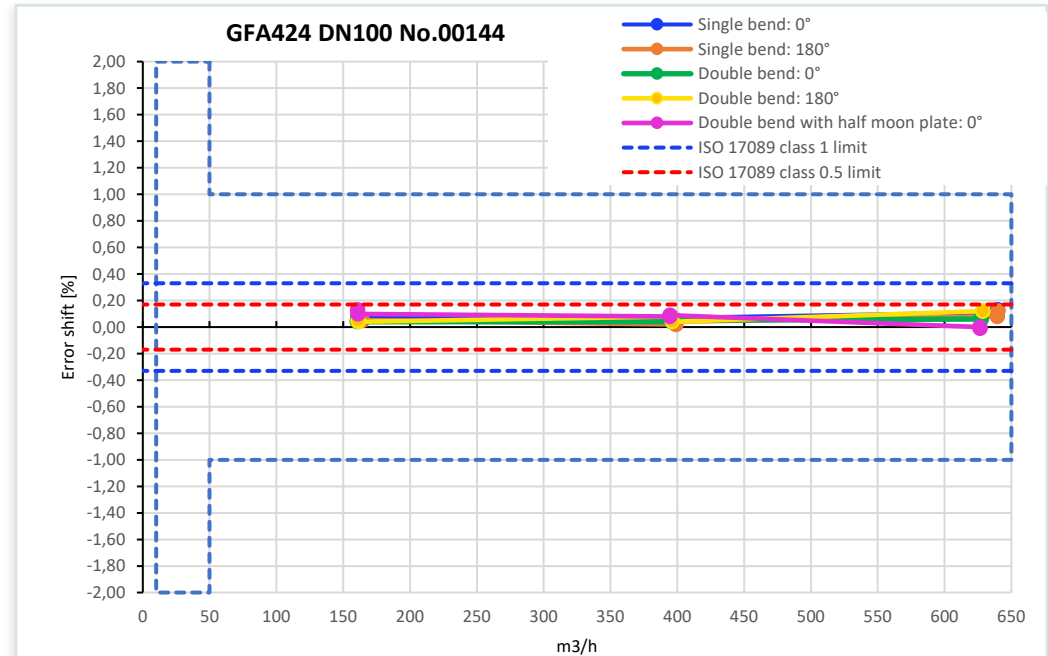
Test Results: Measurement Error vs. Local Resistance



The accuracy curve for GFA424 DN100 with a **double bend with half moon plate 0°** local resistance variant is shown below.



GFA424 DN100 No. 00144



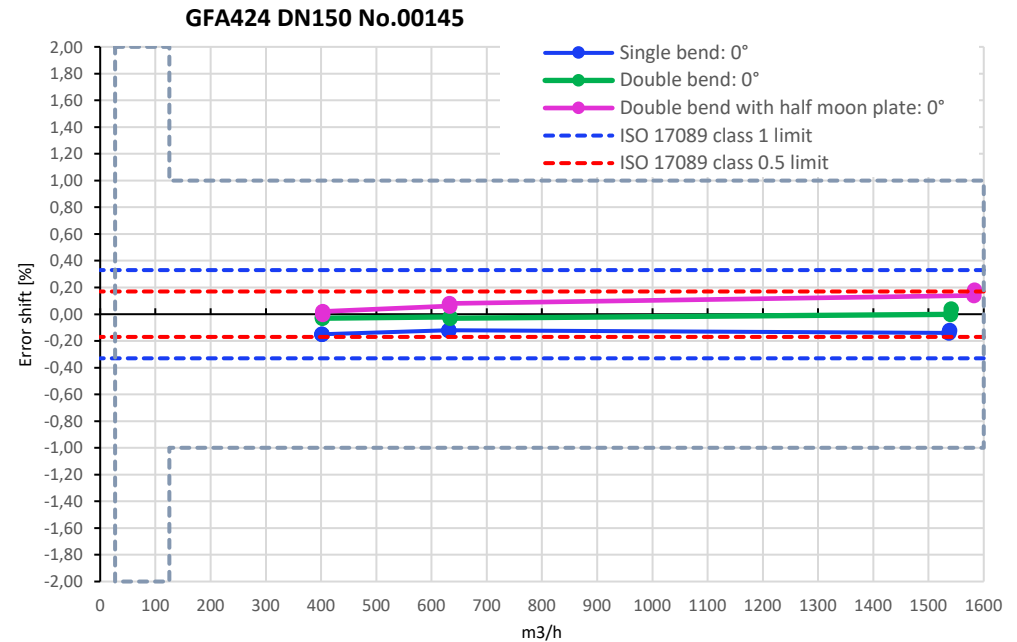
Key results:

- Proven Class 0.5 compliance – error limit: $\pm 0.5\%$ ✓
- All 5 local resistance configurations per AGA-9 & ISO 17089-1 & OIML R137-1&2 tested ✓
- Strong repeatability across all line sizes ✓
- No straight sections required — meter installed directly after disturbance ✓
- Pressure drop on flow rate 650 m³/h – 3,2 kPa ✓

Test Results: Measurement Error vs. Local Resistance



Here you can see the accuracy curve for the GFA424 DN150 gas flow meter.



GFA424 DN150 No. 00145

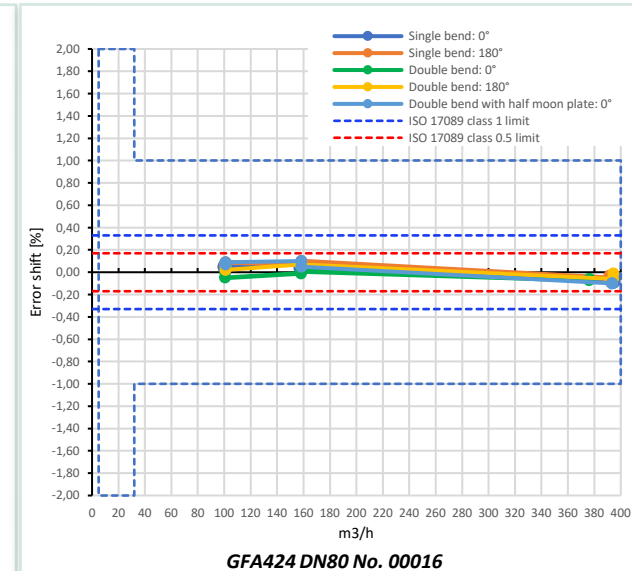
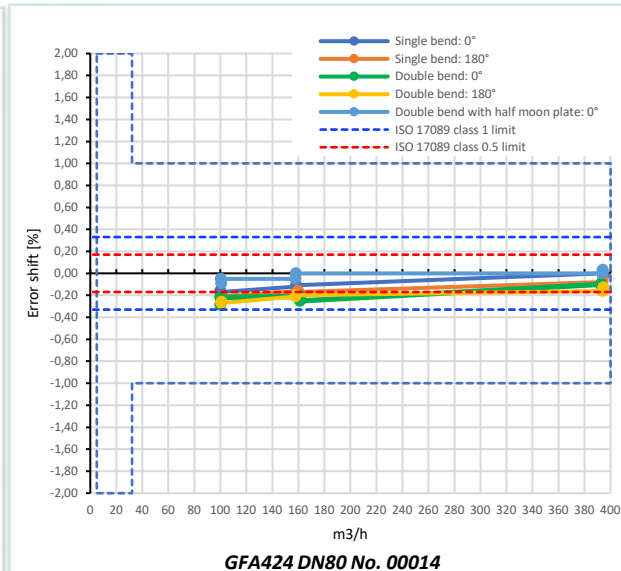
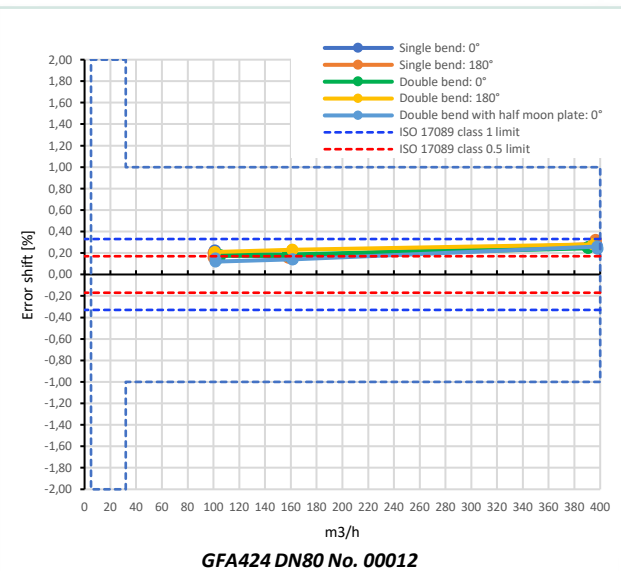
Key results:

- Proven Class 0.5 compliance – error limit: less than 0.2% ✓
- All 5 local resistance configurations per AGA-9 & ISO 17089-1 & OIML R137-1&2 tested ✓
- Strong repeatability across all line sizes ✓
- No straight sections required — meter installed directly after disturbance ✓
- Pressure drop on flow rate 1600 m³/h – 2,3 kPa ✓

Test Results: Measurement Error vs. Local Resistance



Three GFA424 DN80 samples tested with local resistances installed directly at the meter inlet (zero straight sections).
Standards: AGA-9, ISO 17089-1, OIML R137



Key results:

- **Max. additional error: 0.17% (Class 0.5 limit: $\pm 0.5\%$ ✓)**
- All 5 local resistance configurations per AGA-9 & ISO 17089-1 & OIML R137-1&2 tested ✓
- Strong repeatability across 3 production samples ✓
- No straight sections required — meter installed directly after disturbance ✓

Pressure Loss Results: GFA424 DN80 at Maximum Flow



All three production samples tested at maximum flow (400 m³/h). Results confirm compatibility with standard air calibration rigs requiring $\leq 3.5\text{--}5$ kPa pressure drop.

Meter	Flow Rate (m ³ /h)	Pressure Drop (kPa)	Calibration Compatible?
GFA424 DN80 No. 00012	400	3.5	✓ Yes
GFA424 DN80 No. 00014	400	3.3	✓ Yes
GFA424 DN80 No. 00016	400	3.4	✓ Yes
Calibration rig constraint	—	$\leq 3.5 - 5$ kPa	—

Pressure drop gauge — all samples vs. calibration rig limits:



Test Results on Natural Gas: Measurement Error Depending on the Type of Local Resistance



In June 2026, at the volumetric and volumetric flow rate measurement laboratory of the Ivano-Frankivsk branch of Gas Distribution Networks of Ukraine LLC, tests were carried out on GFA424 DN80 No. 4451 and DN100 No. 00144 flow meters on natural gas to determine the dependence of performance on the type of local resistance



GFA424 DN80 with a straight pipeline section



Combined local resistance DN80 installed in the horizontal plane



Combined local resistance DN80 installed in the vertical plane

Test Results on Natural Gas: Measurement Error Depending on the Type of Local Resistance



At the first stage of testing, the measurement error was determined with a straight section installed before the meter. Then the measurement error was determined with local resistances installed directly at the meter inlet



GFA424 DN100 with a straight pipeline section



GFA424 DN100 installed directly downstream of a valve and a tee with a change in flow direction and a sharp constriction



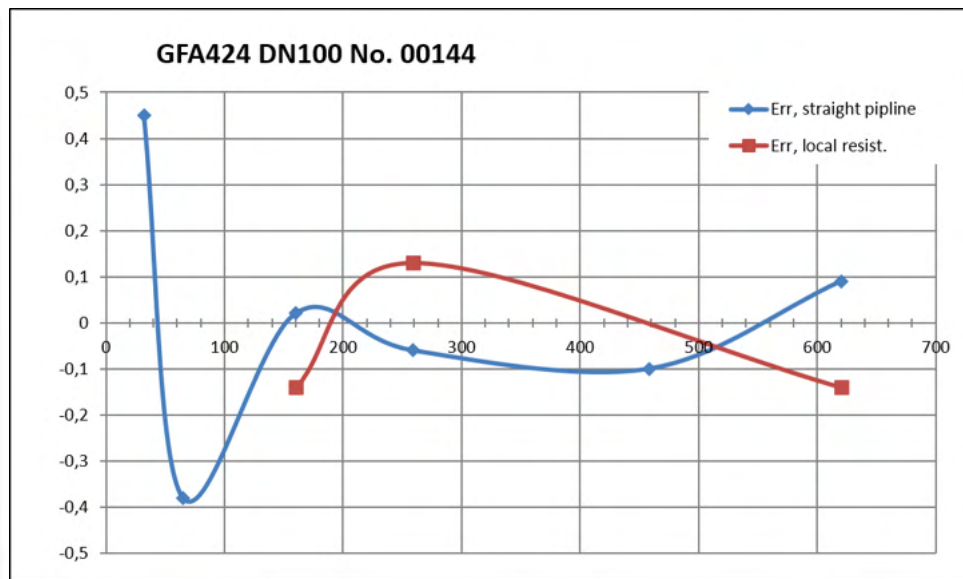
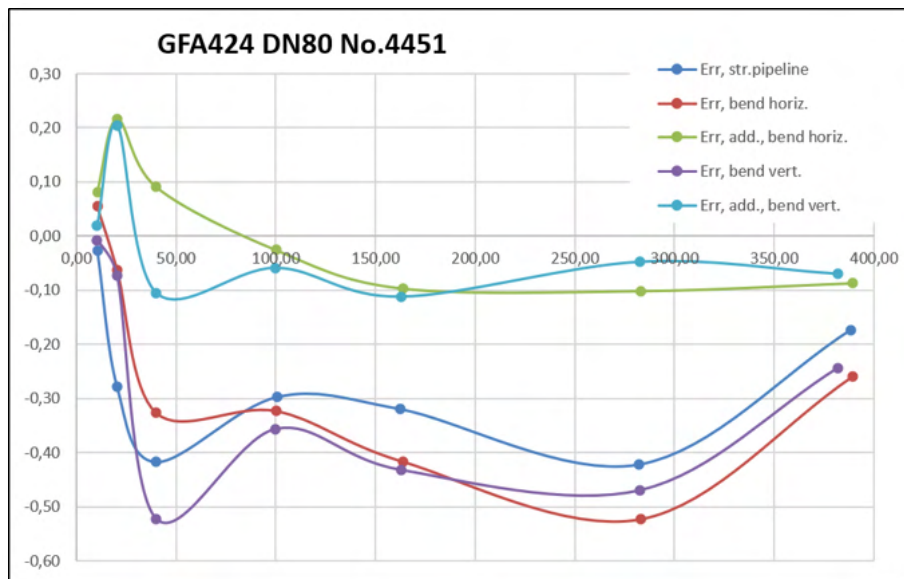
Test Results on Natural Gas: Measurement Error Depending on the Type of Local Resistance



During testing on natural gas, the absolute pressure value was within the range of 0.28–0.29 MPa. At the maximum flow rate of 400 m³/h, the pressure drop between the inlet and outlet of the DN80 meter was 5.09 kPa

Error curves for GFA424 DN80 No. 4451 with different types of local resistance

Error curves for GFA424 DN100 No. 00144 with different types of local resistance



The effect of flow disturbances on the measurement accuracy of the meter was checked with two options for installing the local resistance directly at the meter inlet: in the horizontal and vertical planes

The average measurement error value with a straight section was 0.016%, and with a local resistance in the form of a valve and a tee with a change in flow direction and a sharp reduction in diameter — 0.05%

Results of GFA424 DN80 Tests in Italy in Air at Atmospheric Pressure: Measurement Error Depending on the Type of Local Resistance

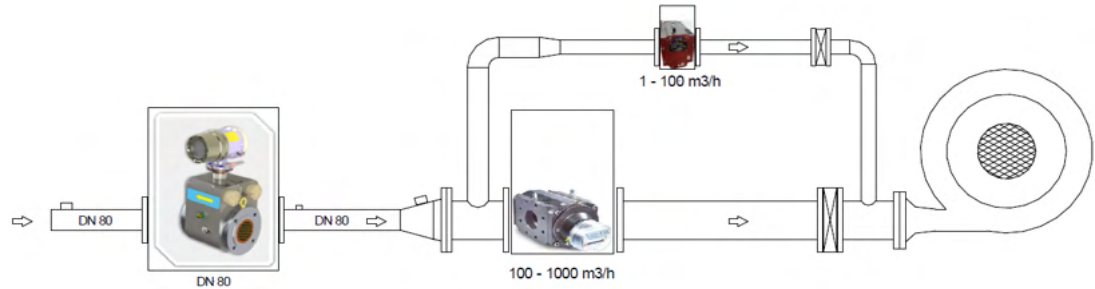


On June 16, 2026, tests of the GFA424 DN80 No. 00015 meter were carried out at the certified mobile laboratory of I.G.S. DATAFLOW (Italy) in two stages

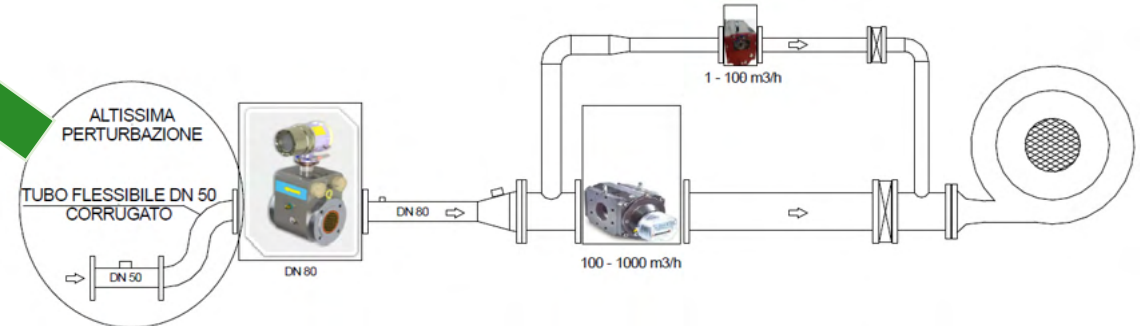


Results of GFA424 DN80 Tests in Italy in Air at Atmospheric Pressure: Measurement Error Depending on the Type of Local Resistance

Stage 1 – Calibration check with straight flow before the meter

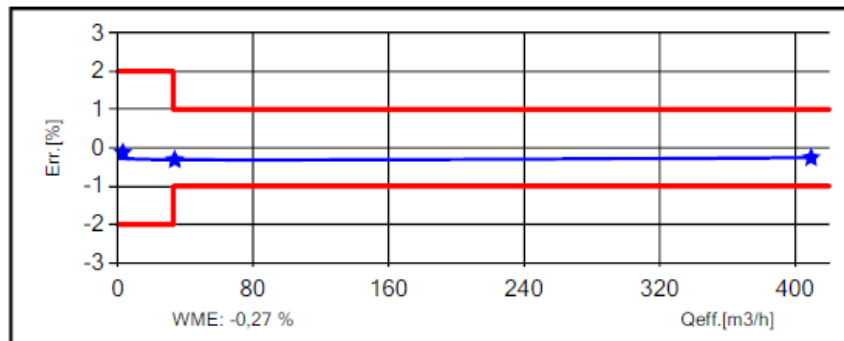


Stage 2 – Calibration check with disturbed flow before the meter



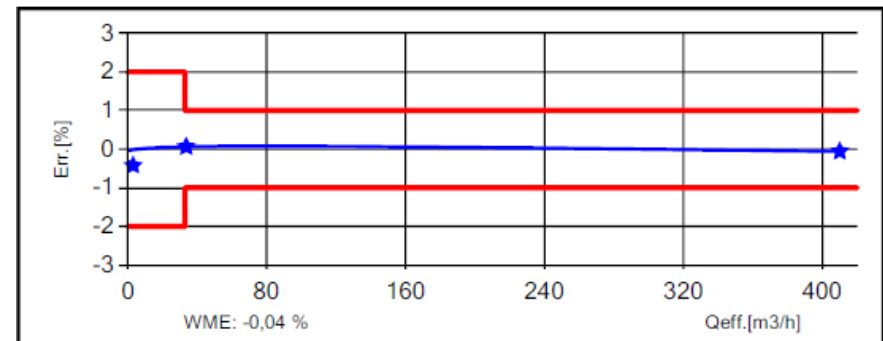
A flexible corrugated DN50 pipe was used as the local resistance to create disturbances in the flow

Stage 1



Graphs of error versus flow rate

Stage 2





Core Advantages – Shared Across the GFA Family

No Moving Parts

Maintenance-free operation.
No mechanical wear or fatigue.

5-Year Battery Life

Autonomous lithium battery
14 Ah / 7.2V — no external power needed.

Dual RS-485 + 4–20mA

Two Modbus RTU ports;
optional analog output.

Integrated PTZ Corrector

Optional P, T & Z sensors built in.
NX-19 mod / GERG-91 / SGERG88.

IP67 + ATEX Compliance

Ex II 2(1)G Ex db ib [ia Ga]
IIC T4 Gb.
Suitable for hazardous areas and for various media like NG, Biogas, H₂+NG mixtures etc.

Comprehensive Logging

Hourly, daily & periodic archives.
Event & metrology logs.

MID / OIML Compliance

EU directive 2014/32/EU.
OIML R137-1&2:2012 · EN 12405.

Flexible Power

Battery or 9–15 VDC external.
Compatible with solar supply.



Certifications & Regulatory Compliance



All GFA meters are certified for compliance with applicable EU directives — enabling international sales and fiscal metering applications

MID 2014/32/EU

Measuring Instruments Directive

Defines requirements for measuring instruments used in commercial transactions. All GFA models comply.

Additionally, GFA meters comply with applicable requirements of

- OIML R137-1&2:2012
- EN 12405:2010

ATEX 2014/34/EU

Explosive Atmospheres Directive

Defines requirements for equipment in potentially explosive gas atmospheres. All GFA models comply.

Ex marking:

II 2(1)G Ex db ib [ia Ga] IIC T4 Gb
IP67 weatherproof enclosure

PED 2014/68/EU

Pressure Equipment Directive

Defines requirements for equipment operating under pressure. GFA202 and GFA414 are certified for operating pressures up to 25 MPa; GFA424 are certified for maximum operating pressure 2 MPa.

Test pressure = 1.5 x Max. operating pressure

This compliance package is a key enabler for international sales and acceptance in regulated custody transfer applications.



Connectivity, Outputs & System Integration



RS-485 Port 1

Modbus RTU — primary SCADA / DCS interface
Baud: 1200 to 115,200 bps · Up to 120m

RS-485 Port 2 / 4-20 mA analog output

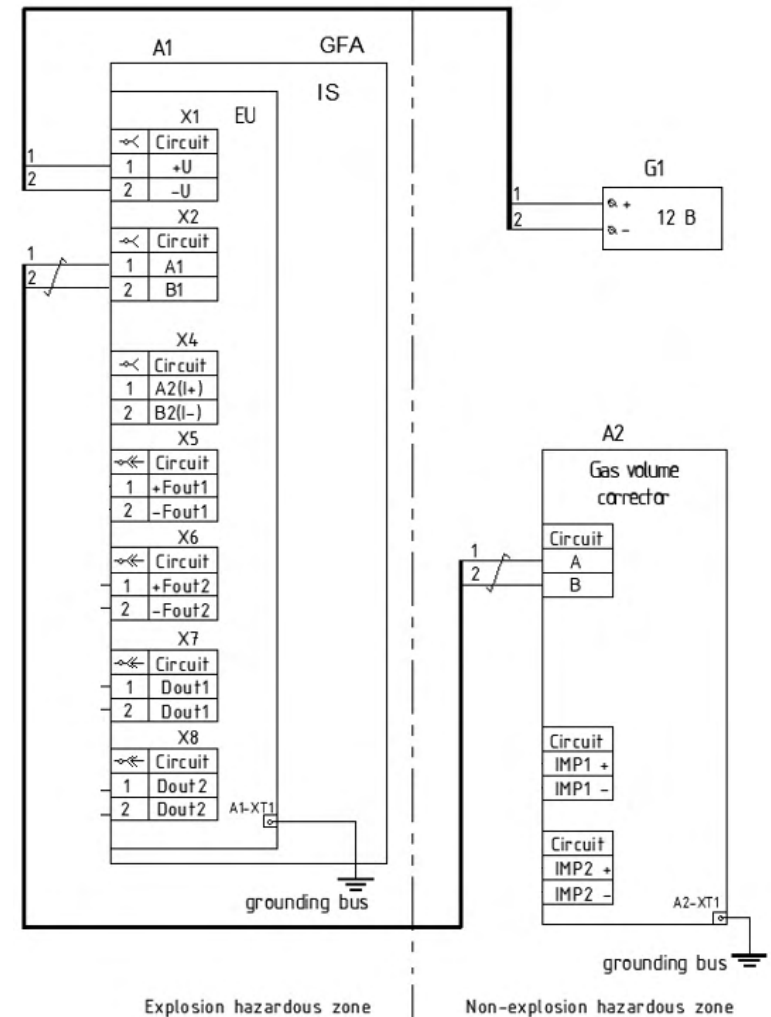
Second Modbus RTU port OR
4–20 mA analog output (factory configured)

Pulse Outputs 1 & 2

LF / HF (user-configurable),
electrically isolated
Forward / reverse volume

Discrete Outputs DO1 & DO2

Electrically isolated (NO, max. 50 mA, 24 V) · Max 100 Hz
Alarm / status signaling



All outputs are electrically isolated. HF outputs and RS-485 require external power (9–15 VDC). Battery mode: 1× LF pulse + 1× RS-485.

Data Logging & Archiving Capabilities



All GFA meters store comprehensive measurement data in non-volatile memory — no data loss on power interruption.

GFA424 Archive Capacities

Periodic Measurement Archive	3,000 entries	<i>Configurable interval</i>
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Hourly Archive	1,081 entries	<i>45 days rolling</i>
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Daily Archive	366 entries	<i>12 months rolling</i>
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Event Log	1,000 entries	<i>System events & alarms</i>
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Metrology Log	1,000 entries	<i>Sealing & calibration events</i>
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GFA202 / GFA414 Archive Capacities

Instantaneous Values	3,000 entries	<i>Configurable from 1 second</i>
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Periodic Archive	4,320 entries	<i>Configurable from 60 seconds (default 30 min)</i>
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Hourly Archive	1,080 entries	<i>45 days rolling</i>
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Daily Archive	365 entries	<i>12 months rolling</i>
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Alarm & Emergencies Log	1,000 entries	<i>Fault & alarm events</i>
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Configuration Change Log	1,000 entries	<i>Interference / config changes</i>
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Security Archive	600 entries	<i>User login / logout events</i>
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Data accessible on local display and via RS-485 (Modbus RTU)



Operating Conditions & Power Options



Operating Conditions

Gas Temperature (Std)	−25°C to +60°C
Gas Temperature (Opt)	−40°C to +70°C
Ambient Temp (Std)	−25°C to +55°C
Ambient Temp (Opt)	−40°C to +70°C
Operating Pressure	up to 25 MPa (GFA 202 & GFA414)
Operating Pressure	up to 2 MPa (GFA 424)
Humidity	up to 100%
Enclosure	IP67 — fully weatherproof
Measuring Medium	Natural gas(NG), Biogas, H ₂ +NG
Flow Velocity Range	0.1 to 40 m/s (GFA202/GFA414) 0.1 to 25 m/s (GFA424)

Power Supply Options



Autonomous Battery Operation

Lithium battery pack: 14 Ah · 7.2 V

Service life: >5 years

Two integral batteries — dual redundancy

Functions: LF pulse output + RS-485 in battery mode



External Power Supply

Input voltage: 9 to 15 VDC

All outputs available: LF / HF pulse, RS-485, 4–20mA, discrete

Both power modes operate simultaneously — battery provides backup if external supply fails.



Custody Transfer & Fiscal Metering

Legal-for-trade metering at gas handover points. GFA414 (Class 0.5) and GFA424 deliver the accuracy required for financial settlement.

Models: GFA414 · GFA424

Natural Gas Distribution Networks

Metering stations on distribution pipelines. GFA202 and GFA424 serve gas distribution companies with reliable, low-maintenance metering.

Models: GFA202 · GFA424

Industrial & Commercial Facilities

Gas measurement at industrial plants, factories, and large commercial users. All three models cover the full range from small to large consumers.

Models: GFA202 · GFA414 · GFA424

Gas Condensate Field Metering

Measurement of gas from wells with water factor 0–200 ml and condensate content 0–140 g/m³. Designed for demanding upstream environments.

Models: GFA202 · GFA414

Hazardous Area Installations (ATEX)

All GFA meters carry ATEX certification for Zone 1/2 hazardous areas and gas group IIC. GFA meters can also be used for measuring Biogas and H₂+NG mixtures.

Models: All Models

Space-Constrained Retrofit Projects

Replacing legacy turbine/rotary meters in tight spaces where straight pipe runs are unavailable. GFA424's OD pipe requirement is the decisive advantage.

Models: GFA424



Ordering & Configuration Guide



Each GFA meter is configured to order. The ordering code captures all key parameters in a single structured string:

GFA[2/4] [0/1/2] [2/4] – [Pressure] – [Calibr] – [DN] – [Size] – [Flange] – [Temp] – [Modem] – [Output] – [Power] – [Corrector] – [Dir]

Number of channels	2 = GFA202 · 4 = GFA414/424
Inline Section	0/1 = Straight pipes required · 2 = No straight pipes (GFA424)
Sensor Pairs	2 = two pairs · 4 = four pairs
Max Pressure	0.6 / 1.0 / 1.6 / 2.5 / 4.0 / 6.3 / 10 / 16 / 25 MPa
Calibration Type	A = Air · G = Natural gas · W = Without calibration
Nominal Diameter	Nominal size in mm: 50 / 80 / 100 / 150 / 200 / 250 / 300 / 400 / 500 / 600
Meter Size (G rating)	G65 / G100 / G160 / ... / G25000 per Table 2 of datasheet
Flange Type	D = EN · A = ANSI (specify class) · O = On order · PN = bar rating
Ambient Temp	S = Standard (–25..+55°C) · H = High temperature (–25..+70°C)
Outputs	D = Two discrete outputs · X = None (All meters have 2 LF/HF pulse outputs and 1 RS485 port as standard configuration)
Additional Output	C = 4–20mA current output · R = RS-485
Power Supply	B = Battery + external 12 VDC (optional) · D = External 12 VDC only
Volume Correction	C = Integrated PTZ volume corrector with P&T measurement · W = Without volume corrector
Flow Direction	1 = Forward only · 2 = Forward and reverse (GFA202 only)

Contact your regional ENERGOFLOW representative for part numbers, pricing and custom configuration support.



Join EnergoFlow AG in Shaping the Gas Flow Metering Revolution



EnergoFlow AG invites interested partners and investors to cooperation for development, production and implementation of our metering solutions in the global market!



Thank you for your kind attention!

www.energoflow.com

