Счетчики газовые мембранные Atmos

Технические характеристики

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Atmos ® Wide range gas meters

Two-pipe wide-range diaphragm gas meter WG2.5S

The meter is characterized by precise measurements, a constant measuring stability, a long life and high reliability. Thanks to the use of high-grade materials the diaphragm gas meter is resistant to corrosion.

The gas meter is suitable for various gas media. The integrated calibration system coordinates the movement of the valves in relation to the optimum gas flow. The excellent linearity of the error curve is guaranteed even at low flow rates.

Due to the optimum rotating characteristics of the valves the Q_{min} value remains stable and the gas meter is resistant to contamination. The high measuring range enables precise metering results. The Atmos® diaphragm gas meter meets the requirements of the EN1359:1998/A1:2006 and OIML R137-1 (2012).

Performance characteristics

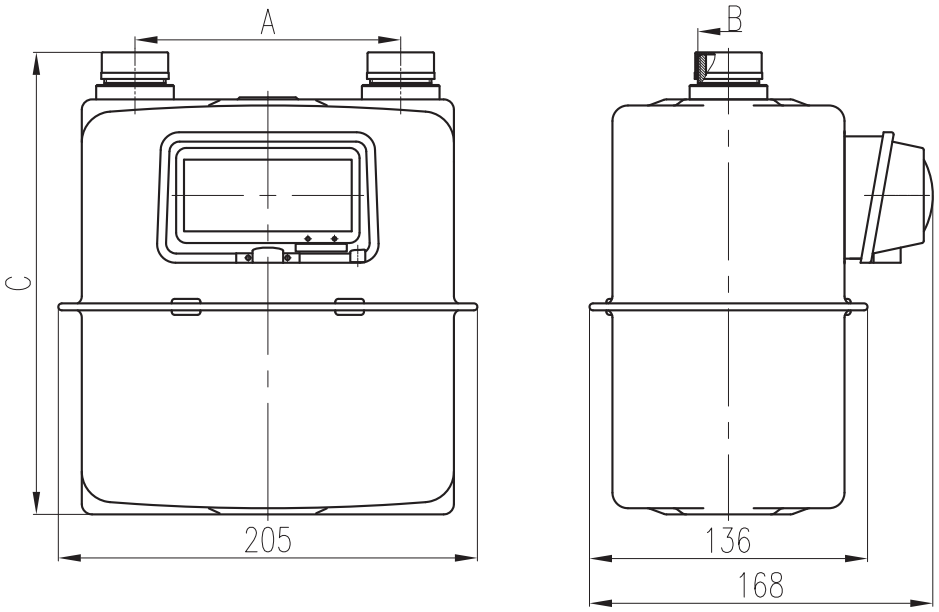
- Approved in accordance with MID by NMi
- Wide measuring range for flow rates of 0.016 m³/h to 6 m³/h
- Galvanized steel powder-coated housing for maximum corrosion resistance
- Fire resistant (HTB) up to 0.1 bar according to EN1359
- Max pressure loss: < 200 Pa at flowrate of 6 m³/h
- Starting flow < 1 dm³/h
- Integrated system to adjust the error curve
- Working temperature range: -25 °C to +55 °C
- Operating pressure: 0.5 bar
- Long-term stability due to usage of high-quality diaphragms
- Retrofittable with pulser
- Optional: reverse flow preventer

Size:
WG2.5S 0.016 m³/h to 6 m³/h

Gas media:
- Natural gas
- Town gas
- Biogas
- Liquid gas
- Methane gas

Housing material:
Galvanized steel sheet or die-cast aluminum

Technical data Atmos® WG2.5S			
Type			WG2.5S
Nominal flowrate	Q_n	m³/h	2.5
Maximum flowrate	Q_{max}	m³/h	6
Minimum flowrate	Q_{min}	m³/h	0.016
Maximum operating pressure		bar	0.5
Maximum permissible errors	$Q_t \leq Q \leq 0.1\ Q_{max}$ $Q_{min} \leq Q < Q_t$		± 1.5% ± 3%
Max. pressure loss		mbar	≤ 2
Display range max.		m³/h	99999.9998
Display range min.		m³/h	0.0002
Accuracy class	class		1.5
Cyclic volume		dm³	1.2
Pulse value		m³/pulse	0.01
Weight		kg	1.8



Dimensions Diaphragm gas meter Atmos® WG 2.5S							
A	[mm]	90 ± 0.50	110 ± 0.50	130 ± 0.50			
B		M30 x 2 - 6 g	G¾B	G⅞B	G1B	NPT ¾″	BS746 1″
C	[mm]	226		218			

Atmos ® - Diaphragm gas meter

Two-pipe Diaphragm gas meter G1.6S | G2.5S | G4S

Center distance 110 mm

Center distance 152.4 mm

Solid build quality, high accuracy, safety and a series of advanced technical details make the Atmos® diaphragm gas meter a high-grade measuring instrument. The Diaphragm gas meter is available in sizes G1.6, G2.5 and G4. The meter is characterized by precise measurements, a constant measuring stability, a long life and high reliability. Thanks to the use of high-grade materials, the diaphragm gas meter is resistant to corrosion.

The gas meter is suitable for various gas media. The integrated calibration system coordinates the movement of the valves in relation to the optimum gas flow. The excellent linearity of the error curve is guaranteed even at low flow rates. Due to the optimum rotating characteristics of the valves the Qmin value remains stable and the gas meter is resistant to contamination.

The Atmos® diaphragm gas meter meets the requirements of the EN1359:1998/A1:2006 and OIML R137-1 (2012) standards.

Sizes:

G1.6S : 0.016 m^3/h to 2.5 m^3/h

G2.5S : 0.025 m^3/h to 4 m^3/h

G4S : 0.04 m^3/h to 6 m^3/h

Gas media:

- Natural gas
- Town gas
- Biogas
- Liquid gas
- Methane gas

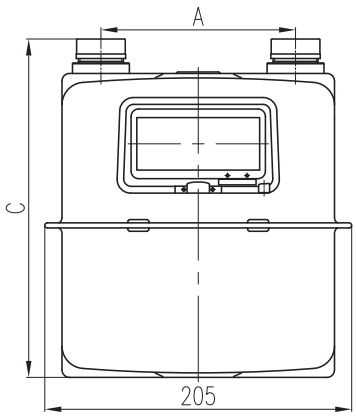
Housing material:

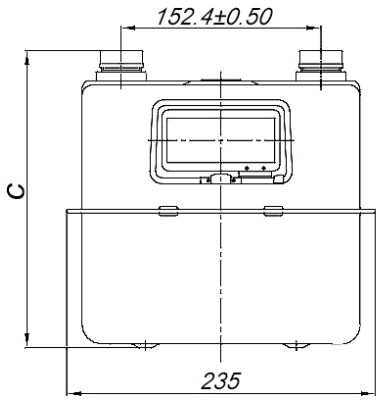
Galvanized steel sheet

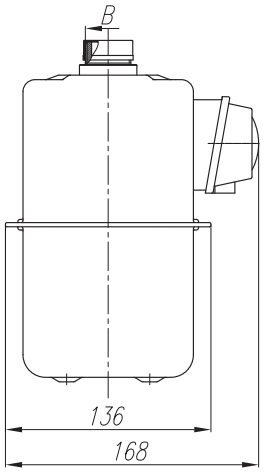
Performance characteristics

- Approved in accordance with MID by NMi
- Integrated system to adjust the error curve
- Galvanized steel powder-coated housing for maximum corrosion resistance
- Fire resistant (HTB) up to 0.1 bar according to EN1359
- Starting flow < 1 dm^3/h
- Working temperature range: -25 °C to +55 °C
- Operating pressure: 0.5 bar
- Long-term stability due to usage of high-quality diaphragms
- Retrofittable with pulser
- Optional: reverse flow preventer

Technical data Atmos® G1.6S | G2.5S | G4S					
Type			G1.6S	G2.5S	G4S
Nominal flowrate	Q_n	m³/h	1.6	2.5	4
Maximum flowrate	Q_{max}	m³/h	2.5	4	6
Minimum flowrate	Q_{min}	m³/h	0.016	0.025	0.04
Maximum operating pressure		bar	0.5	0.5	0.5
Maximum permissible errors	$0.1\ Q_{max} \le Q \le Q_{max}$ $Q_{min} \le Q < 0.1\ Q_{max}$		± 1.5% ± 3%	± 1.5% ± 3%	± 1.5% ± 3%
Max. pressure loss		mbar	≤ 2	≤ 2	≤ 2
Display range max.		m³/h	99999.9998	99999.9998	99999.9998
Display range min.		m³/h	0.0002	0.0002	0.0002
Accuracy class	class		1.5	1.5	1.5
Cyclic volume		dm³	1.2	1.2	1.2
Pulse value		m³/pulse	0.01	0.01	0.01
Weight	110/130 mm	kg	1.8	1.8	1.8
	152.4 mm		2.0	2.0	2.0







Dimensions Diaphragm gas meter Atmos® G1.6S | G2.5S | G4S							
A	[mm]	90 ± 0.50	110 ± 0.50	130 ± 0.50	152.4 ± 0.50		
B		M30 x 2 - 6 g	G¾ B	G⅞B	G1B	NPT ¾″	BS746 1″
C	[mm]	226		218			

Atmos ® - Compact type gas meter

Two-pipe Diaphragm gas meter G1.6MS | G2.5MS

Center distance 110mm

Center distance 130mm

Solid build quality, high accuracy, safety and a series of advanced technical details make the Atmos®diaphragm gas meter a high-grade measuring instrument. The Diaphragm gas meter is available in sizes G1.6 and G2.5. The meter is characterized by precise measurements, a constant measuring stability, a long life and high reliability. Thanks to the use of high-grade materials, the diaphragm gas meter is resistant to corrosion.

The gas meter is suitable for various gas media. The integrated calibration system coordinates the movement of the valves in relation to the optimum gas flow. The excellent linearity of the error curve is guaranteed even at low flow rates. Due to the optimum rotating characteristics of the valves the Qmin value remains stable and the gas meter is resistant to contamination.
The Atmos® compact type diaphragm gas meter meets the requirements of the EN1359:1998/A1:2006 and OIML R137-1 (2012) standards.

Sizes:

G1.6MS : 0.016 m^3/h to 2.5 m^3/h

G2.5MS : 0.025 m^3/h to 4 m^3/h

Gas media:

- Natural gas
- Town gas
- Biogas
- Liquid gas
- Methane gas

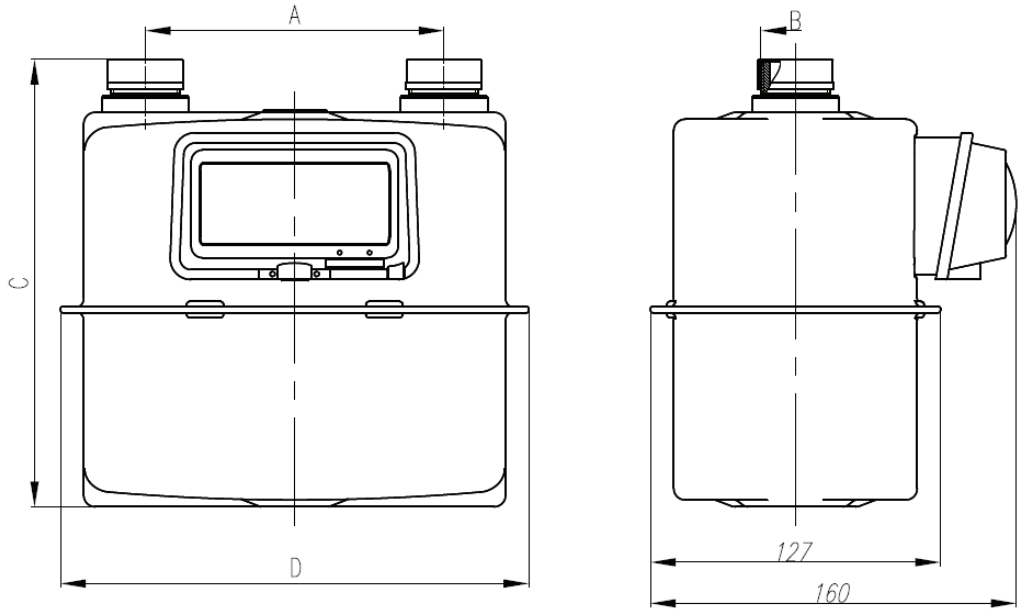
Housing material:

Galvanized steel sheet

Performance characteristics

- Approved in accordance with MID by NMi
- Integrated system to adjust the error curve
- 0.8dm³ cyclic volume, suitable for the demand of G1.6 and G2.5
- Long-term accurate measurement
- Galvanized steel powder-coated housing for maximum corrosion resistance
- Fire resistant (HTB) up to 0.1 bar according to EN1359
- Working temperature range: -25 °C to +55 °C
- Anti-corrosion performance
- Starting flow ≤ 1 dm3/h
- Retrofittable with pulser

Technical data Atmos® G1.6MS | G2.5MS				
Type			G1.6MS	G2.5MS
Nominal flowrate	Q_n	m³/h	1.6	2.5
Maximum flowrate	Q_{max}	m³/h	2.5	4
Minimum flowrate	Q_{min}	m³/h	0.016	0.025
Maximum operating pressure		bar	0.5	0.5
Maximum permissible errors	$0.1\ Q_{max} \le Q \le Q_{max}$ $Q_{min} \le Q < 0.1\ Q_{max}$		± 1.5% ± 3%	± 1.5% ± 3%
Max. pressure loss		mbar	≤ 2	≤ 2
Display range max.		m³/h	99999.9998	99999.9998
Display range min.		m³/h	0.0002	0.0002
Accuracy class	class		1.5	1.5
Cyclic volume		dm³	0.8	0.8
Pulse value		m³/pulse	0.01	0.01
Weight		kg	1.55	1.55



Dimensions Diaphragm gas meter Atmos® G1.6MS | G2.5MS						
A	[mm]		110 ± 0.50	130 ± 0.50		
B		M30 x 2 - 6 g	M26 x 1.5 - 6 g	G¾B	G⅞B	NPT¾″
C	[mm]		189	195		
D	[mm]		184 @ A=110	204 @ A=130		

Atmos ® - Compact type gas meter

Two-pipe Diaphragm gas meter G1.6MA | G2.5MA

Solid build quality, high accuracy, safety and a series of advanced technical details make the Atmos®diaphragm gas meter a high-grade measuring instrument. The Diaphragm gas meter is available in sizes G1.6 and G2.5. The meter is characterized by precise measurements, a constant measuring stability, a long life and high reliability. Thanks to the use of high-grade materials, the diaphragm gas meter is resistant to corrosion.

The gas meter is suitable for various gas media. The integrated calibration system coordinates the movement of the valves in relation to the optimum gas flow. The excellent linearity of the error curve is guaranteed even at low flow rates. Due to the optimum rotating characteristics of the valves the Qmin value remains stable and the gas meter is resistant to contamination.

The Atmos®diaphragm gas meter meets the requirements of the EN1359:1998/A1:2006 and OIML R137-1 (2012) standards.

Sizes:

G1.6MA : 0.016 m^3/h to 2.5 m^3/h

G2.5MA : 0.025 m^3/h to 4 m^3/h

Gas media:

- Natural gas
- Town gas
- Biogas
- Liquid gas
- Methane gas

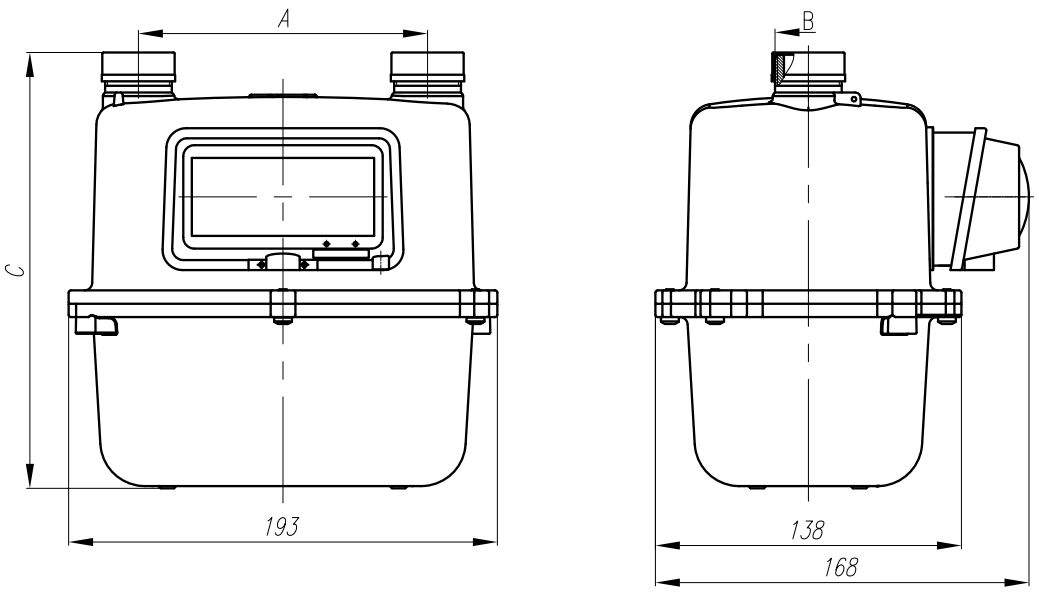
Housing material:

Die-cast aluminum

Performance characteristics

- Approved in accordance with MID by NMi
- Integrated system to adjust the error curve
- 0.8dm³ cyclic volume, suitable for the demand of G1.6 & G2.5
- Long-term accurate measurement
- Working temperature range: -25 °C to +55 °C
- Anti-corrosion performance
- Starting flow ≤ 1 dm3/h
- Retrofittable with pulser

Technical data Atmos® G1.6MA | G2.5MA				
Type			G1.6MA	G2.5MA
Nominal flowrate	Q_n	m³/h	1.6	2.5
Maximum flowrate	Q_{max}	m³/h	2.5	4
Minimum flowrate	Q_{min}	m³/h	0.016	0.025
Maximum operating pressure		bar	0.5	0.5
Maximum permissible errors	$0.1\ Q_{max} \le Q \le Q_{max}$ $Q_{min} \le Q < 0.1\ Q_{max}$		± 1.5% ± 3%	± 1.5% ± 3%
Max. pressure loss		mbar	≤ 2	≤ 2
Display range max.		m³/h	99999.9998	99999.9998
Display range min.		m³/h	0.0002	0.0002
Accuracy class	class		1.5	1.5
Cyclic volume		dm³	0.8	0.8
Pulse value		m³/pulse	0.01	0.01
Weight		kg	1.55	1.55



Dimensions Diaphragm gas meter Atmos® G1.6MA | G2.5MA				
A	[mm]	110 ± 0.50	130 ± 0.50	
B		M30 x 2 - 6 g	M26 x 1.5- 6 g	NPT ¾"
C	[mm]	196		

Atmos ® - Diaphragm gas meter with temperature compensation

Two-pipe Diaphragm gas meter G1.6-T | G2.5-T | G4-T

The gas meters G1.6-T | G2.5-T | G4-T are equipped with a temperature compensation mechanism. When the temperature of the gas flow changes, a synthetic bi-metal with different thermal expansion coefficients on the compensation mechanism will be triggered. The deformation is bended, so the length of the crank will be changed to adjust the movement of the diaphragm. Thereby the cyclic volume is changed. Its special design will counteract the volume differences which caused by the thermal expansion and contraction of gas. This kind of meter could improve environmental adaptability of diaphragm gas meter, and greatly improve the measurement accuracy.

Performance characteristics

- Temperature compensation for correcting meter readings
- Integrated system to adjust the error curve
- Galvanized steel powder-coated housing for maximum corrosion resistance
- Operating pressure: 0.5 bar
- Working temperature range: -25 °C to +55 °C
- Long-term stability due to usage of high-quality diaphragms
- Fire resistant (HTB) up to 0.1 bar according to EN1359
- Anti-corrosion performance
- Starting flow ≤ 1 dm3/h
- Retrofittable with pulser

Sizes:

G1.6-T : 0.016 m^3/h to 2.5 m^3/h

G2.5-T : 0.025 m^3/h to 4 m^3/h

G4-T : 0.04 m^3/h to 6 m^3/h

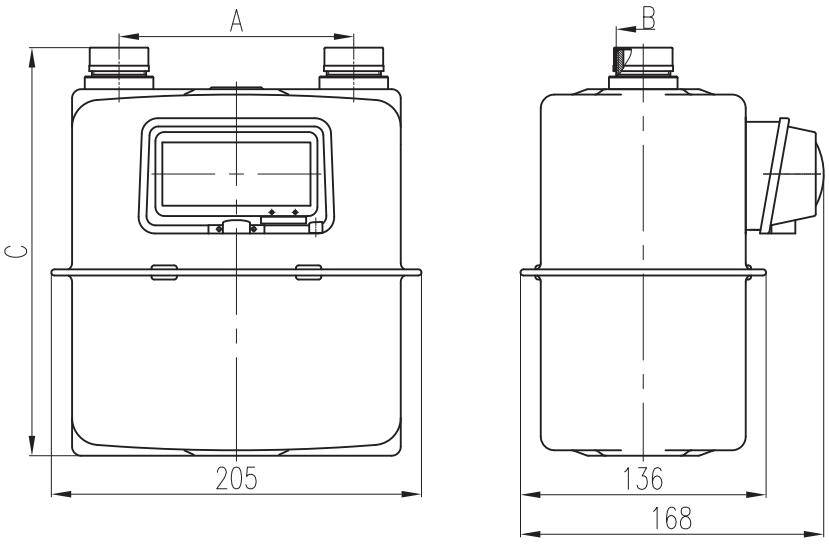
Gas media:

- Natural gas
- Town gas
- Biogas
- Liquid gas
- Methane gas

Housing material:

Galvanized steel sheet

Technical data Atmos® G1.6-T | G2.5-T | G4-T					
Type			G1.6-T	G2.5-T	G4-T
Nominal flowrate	Q_n	m³/h	1.6	2.5	4
Maximum flowrate	Q_{max}	m³/h	2.5	4	6
Minimum flowrate	Q_{min}	m³/h	0.016	0.025	0.04
Maximum operating pressure		bar	0.5	0.5	0.5
Maximum permissible errors	$0.1\ Q_{max} \le Q \le Q_{max}$ $Q_{min} \le Q < 0.1\ Q_{max}$		± 1.5% ± 3%	± 1.5% ± 3%	± 1.5% ± 3%
Max. pressure loss		mbar	≤ 2	≤ 2	≤ 2
Display range max.		m³/h	99999.9998	99999.9998	99999.9998
Display range min.		m³/h	0.0002	0.0002	0.0002
Accuracy class	class		1.5	1.5	1.5
Cyclic volume		dm³	1.2	1.2	1.2
Pulse value		m³/pulse	0.01	0.01	0.01
Weight		kg	2.0	2.0	2.0



Dimensions Diaphragm gas meter Atmos® G1.6-T | G2.5-T | G4-T							
A	[mm]	110 ± 0.50	130 ± 0.50				
B		M30 x 2 - 6 g	G¾B	G⅞B	G1B	G1¼B	NPT ¾″
C	[mm]	230	238				

Atmos ® HP - Diaphragm gas meter

Two-pipe Diaphragm gas meter HP G1.6A | HP G2.5A | HP G4A

Solid build quality, high accuracy, safety and a series of advanced technical details make the Atmos® diaphragm gas meter a high-grade measuring instrument. The meter is characterized by precise measurements, a constant measuring stability, a long life and high reliability. Thanks to the use of high-grade materials the diaphragm gas meter is resistant to corrosion.

The gas meter is suitable for various gas media. The integrated calibration system coordinates the movement of the valves in relation to the optimum gas flow. The excellent linearity of the error curve is guaranteed even at low flow rates. Due to the optimum rotating characteristics of the valves the Qmin value remains stable and the gas meter is resistant to contamination.
The high measuring range enables precise metering for flow rates from 0.016 m³/h to 6 m³/h.

The Atmos® HP- diaphragm gas meter meets the requirements of the EN1359:1998/A1:2006 and OIML R137-1 (2012) standards.

Sizes:

HP G1.6A : 0.016 m^3/h to 2.5 m^3/h

HP G2.5A : 0.025 m^3/h to 4 m^3/h

HP G4A : 0.04 m^3/h to 6 m^3/h

Gas media:

- Natural gas
- Town gas
- Biogas
- Liquid gas
- Methane gas

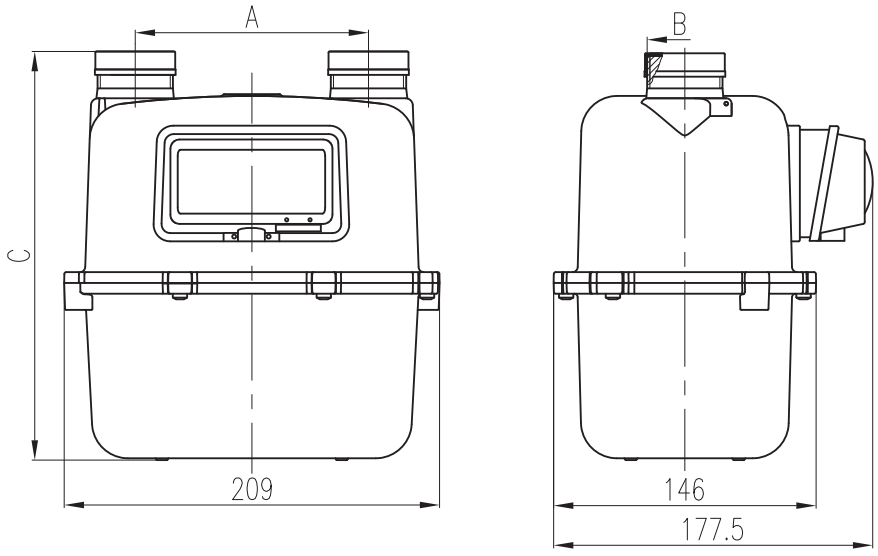
Housing material:

Die-cast aluminum

Performance characteristics

- Approved in accordance with MID by NMi
- Integrated system to adjust the error curve
- Die-cast aluminum housing for maximum corrosion resistance
- Starting flow < 1 dm^3/h
- Working temperature range: -25 °C to +55°C
- Operating pressure: 1.5 bar
- Long-term stability due to usage of high-quality diaphragms
- Retrofittable with pulser
- Optional: reverse flow preventer

Technical data Atmos® HP G1.6A | HP G2.5A | HP G4A					
Type			HP G1.6A	HP G2.5A	HP G4A
Nominal flowrate	Q_n	m³/h	1.6	2.5	4
Maximum flowrate	Q_{max}	m³/h	2.5	4	6
Minimum flowrate	Q_{min}	m³/h	0.016	0.025	0.04
Maximum operating pressure		bar	1.5	1.5	1.5
Maximum permissible errors	$0.1\ Q_{max} \le Q \le Q_{max}$ $Q_{min} \le Q < 0.1\ Q_{max}$		± 1.5% ± 3%	± 1.5% ± 3%	± 1.5% ± 3%
Max. pressure loss		mbar	≤ 2	≤ 2	≤ 2
Display range max.		m³/h	99999.9998	99999.9998	99999.9998
Display range min.		m³/h	0.0002	0.0002	0.0002
Accuracy class	class		1.5	1.5	1.5
Cyclic volume		dm³	1.2	1.2	1.2
Pulse value		m³/pulse	0.01	0.01	0.01
Weight		kg	2.2	2.2	2.2



Dimensions Diaphragm gas meter Atmos® HP G1.6A | HP G2.5A | HP G4A						
A	[mm]	130 ± 0.50				
B		M30 x 2 - 6 g	G¾B	G⅞B	NPT ¾″	NPT 1″
C	[mm]	227				

Atmos ® HP - Diaphragm gas meter

Two-pipe Diaphragm gas meter HP G6A

Solid build quality, high accuracy, safety and a series of advanced technical details make the Atmos® diaphragm gas meter a high-grade measuring instrument. The Diaphragm gas meter is available in size G6. The meter is characterized by precise measurements, a constant measuring stability, a long life and high reliability. Thanks to the use of high-grade materials the diaphragm gas meter is resistant to corrosion.

The gas meter is suitable for various gas media. The integrated calibration system coordinates the movement of the valves in relation to the optimum gas flow. The excellent linearity of the error curve is guaranteed even at low flow rates. Due to the optimum rotating characteristics of the valves the Qmin value remains stable and the gas meter is resistant to contamination.
The Atmos® HP-diaphragm gas meter meets the requirements of the EN1359:1998/A1:2006 and OIML R137-1 (2012) standards.

Performance characteristics

- Approved in accordance with MID by NMi
- Integrated system to adjust the error curve
- Die-cast aluminum housing for maximum corrosion resistance
- Starting flow < 1 dm³/h
- Working temperature range: -25 °C to +55°C
- Max operating pressure: 1.5 bar
- Long-term stability due to usage of high-quality diaphragms
- Optional: reverse flow preventer

Sizes:

HP G6A : 0.06 m³/h to 10 m³/h

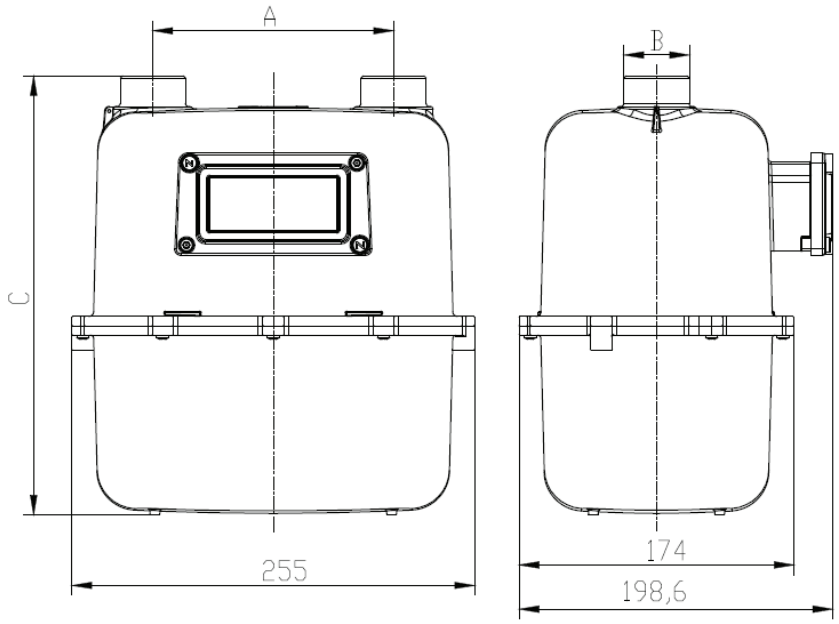
Gas media:

- Natural gas
- Town gas
- Biogas
- Liquid gas
- Methane gas

Housing material:

Die-cast aluminum

Technical data Atmos® HP G6A			
Type			HP G6A
Nominal flowrate	Q_n	m³/h	6
Maximum flowrate	Q_{max}	m³/h	10
Minimum flowrate	Q_{min}	m³/h	0.06
Maximum operating pressure		bar	1.5
Maximum permissible errors	$0.1\ Q_{max} \le Q \le Q_{max}$ $Q_{min} \le Q < 0.1\ Q_{max}$		± 1.5% ± 3%
Max. pressure loss		mbar	≤ 2
Display range max.		m³/h	99999.9998
Display range min.		m³/h	0.0002
Accuracy class	class		1.5
Cyclic volume		dm³	2.5
Pulse value		m³/pulse	0.01
Weight		kg	3.1



Dimensions Diaphragm gas meter Atmos® HP G6A					
A	[mm]	152.4 ± 0.30			
B		G1B	G1¼B	NPT 1″	NPT 1¼″
C	[mm]	279			

Atmos ® - Diaphragm gas meter

Two-pipe Diaphragm gas meter G1.6A | G2.5A

Solid build quality, high accuracy, safety and a series of advanced technical details make the Atmos® diaphragm gas meter a high-grade measuring instrument. The Diaphragm gas meter is available in sizes G1.6 and G2.5. The meter is characterized by precise measurements, a constant measuring stability, a long life and high reliability. Thanks to the use of high-grade materials the diaphragm gas meter is resistant to corrosion.

The gas meter is suitable for various gas media. The integrated calibration system coordinates the movement of the valves in relation to the optimum gas flow. The excellent linearity of the error curve is guaranteed even at low flow rates. Due to the optimum rotating characteristics of the valves the Qmin value remains stable and the gas meter is resistant to contamination.

Performance characteristics

- Integrated system to adjust the error curve
- Die-cast aluminum housing for maximum corrosion resistance
- Starting flow < 1 dm³/h
- Working temperature range: -10 °C to +40°C
- Operating pressure: 0.5 bar
- Long-term stability due to usage of high-quality diaphragms
- Optional: reverse flow preventer

Sizes:

G1.6A : 0.016 m³/h to 2.5 m³/h

G2.5A : 0.025 m³/h to 4 m³/h

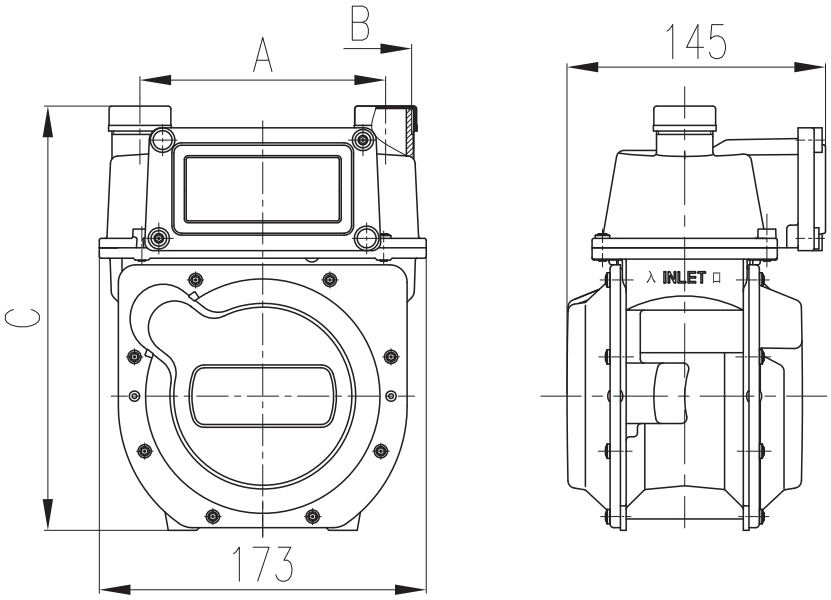
Gas media:

- Natural gas
- Town gas
- Biogas
- Liquid gas
- Methane gas

Housing material:

Die-cast aluminum

Technical data Atmos® G1.6A | G2.5A				
Type			G1.6A	G2.5A
Nominal flowrate	Q_n	m³/h	1.6	2.5
Maximum flowrate	Q_{max}	m³/h	2.5	4
Minimum flowrate	Q_{min}	m³/h	0.016	0.025
Maximum operating pressure		bar	0.5	0.5
Maximum permissible errors	$0.1\ Q_{max} \le Q \le Q_{max}$ $Q_{min} \le Q < 0.1\ Q_{max}$		± 1.5% ± 3%	± 1.5% ± 3%
Max. pressure loss		mbar	≤ 2	≤ 2
Display range max.		m³/h	99999.9998	99999.9998
Display range min.		m³/h	0.0002	0.0002
Accuracy class	class		1.5	1.5
Cyclic volume		dm³	1.2	1.2
Pulse value		m³/pulse	0.01	0.01
Weight		kg	1.8	1.8



Dimensions Diaphragm gas meter Atmos® G1.6A | G2.5A					
A	[mm]	110 ± 0.50	130 ± 0.50		
B		M26 x 1.5 - 6g	M30 x 2 - 6g	G¾B	G⅞B
C	[mm]	225			

Atmos® IC-Card prepaid diaphragm gas meter

Two-pipe IC-Card diaphragm gas meter IG1.6S | IG2.5S | IG4S

IGS series are credit gas meters and use an encrypted IC card as a data carrier. Our IGS system is optimally adapted to the needs of gas supply companies. Using the IC-card, information such as gas flow, meter status or unusual operating conditions of the meter are read. This allows the operator to get relevant data from the customer without on-site reading.

The gas meter is suitable for various gas media. The integrated calibration system coordinates the movement of the valves in relation to the optimum gas flow. The excellent linearity of the error curve is guaranteed even at low flow rates. Due to the optimum rotating characteristics of the valves the Qmin value remains stable and the gas meter is resistant to contamination.
The Atmos® IC-Card prepaid diaphragm gas meter meets the requirements of the EN1359:1998/A1:2006 and OIML R137-1 (2012) standards.

Sizes:

IG1.6S : 0.016 m^3/h to 2.5 m^3/h

IG2.5S : 0.025 m^3/h to 4m^3/h

IG4S : 0.04 m^3/h to 6 m^3/h

Gas media:

- Natural gas
- Town gas
- Biogas
- Liquid gas
- Methane gas

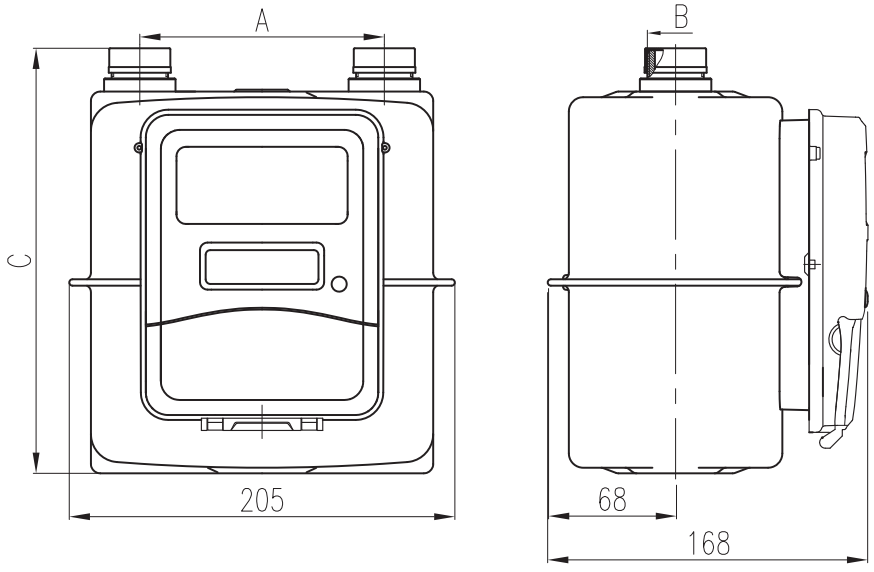
Housing material:

Galvanized steel sheet

Performance characteristics

- Prepaid function
- Overdrawing function
- Hint and warning function
- Built-in shut-off valve
- Anti magnetic interference
- Integrated system to adjust the error curve
- Starting flow < 1 dm^3/h
- Working temperature range: -25 °C to +55 °C
- Operating pressure: 0.5 bar
- Long-term stability due to usage of high-quality diaphragms
- Optional: stair gas price
- Temperature and pressure compensation

Technical data Atmos® IG1.6S | IG2.5S | IG4S					
Type			IG1.6S	IG2.5S	IG4S
Nominal flowrate	Q_n	m³/h	1.6	2.5	4
Maximum flowrate	Q_{max}	m³/h	2.5	4	6
Minimum flowrate	Q_{min}	m³/h	0.016	0.025	0.04
Maximum operating pressure		bar	0.5	0.5	0.5
Maximum permissible errors	0.1 Q_{max} ≤Q≤ Q_{max} Q_{min} ≤Q < 0,1Q_{max}		± 1.5% ± 3%	± 1.5% ± 3%	± 1.5% ± 3%
Max. pressure loss		mbar	≤ 2	≤ 2	≤ 2
Display range max.		m³/h	99999.9998	99999.9998	99999.9998
Display range min.		m³/h	0.0002	0.0002	0.0002
Cyclic volume		dm³	1.2	1.2	1.2
Accuracy class		class	1.5	1.5	1.5
Weight		kg	2.2	2.2	2.2
Working voltage		VDC	4.5 / 6	4.5 / 6	4.5 / 6
Battery life		year	1	1	1
Pulse value		m³/pulse	0.01 or 0.1	0.01 or 0.1	0.01 or 0.1
Quiescent current		µA	< 20	< 20	< 20
Maximum current		mA	< 300	< 300	< 300



Dimensions Diaphragm gas meter Atmos® IG1.6S | IG2.5S | IG4S							
A	[mm]	110 ± 0.50		130 ± 0.50			
B		M30 x 2 - 6 g	G¾B	G⅞B	G1B	G1¼B	NPT ¾"
C	[mm]	218		226			

Atmos ® - LoRa / LoRaWAN Smart Electronic Index for Gas Meter

Two-pipe diaphragm gas meter IG1.6S-W | IG2.5S-W|IG4S-W

The LoRa / LoRaWAN smart applications are growing rapidly with the Internet of Things deployment, it realized collecting data from the distances of many miles or kilometers, being perfect choice for suburban areas.
This smart index is meant to be attached to the existing Zenner gas meters, providing detailed energy consumption information in real-time. The sensor starts gathering data automatically to the server after the installation and may be configured according to each unit. It also helps to optimize usage of natural resources in the gas metering industry and gain substantial productivity.

Performance characteristics

- Pre-installed long-life battery
- Configurable reporting interval
- Long range wireless data transmission
- Maintenance free- install & forget
- Communication distance (Empty environment) > 5 kilometers
- Conform to LoRaWAN international standard protocol
- Automatic data upload, precise power consumption controlling
- Remote settable block pricing and valve control
- Daily and monthly billing data records available

Size:

IG1.6S-W : 0.016 m^3/h to 2.5 m^3/h

IG2.5S-W : 0.025 m^3/h to 4 m^3/h

IG4S-W : 0.04 m^3/h to 6 m^3/h

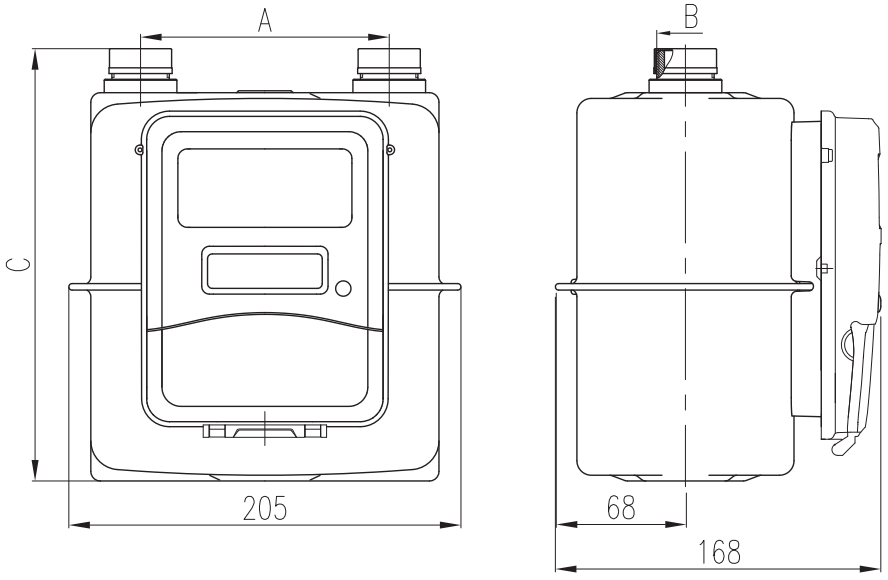
Gas media:

- Natural gas
- Town gas
- Biogas
- Liquid gas
- Methane gas

Housing material:

Galvanized steel sheet

Technical data Atmos® IG1.6S-W | IG2.5S-W | IG4S-W					
Type			IG1.6S-W	IG2.5S-W	IG4S-W
Nominal flowrate	Q_n	m³/h	1.6	2.5	4
Maximum flowrate	Q_{max}	m³/h	2.5	4	6
Minimum flowrate	Q_{min}	m³/h	0.016	0.025	0.04
Maximum operating pressure		bar	0.5	0.5	0.5
Maximum permissible errors	$0.1\ Q_{max} \leq Q \leq Q_{max}$ $Q_{min} \leq Q < 0.1\ Q_{max}$		± 1.5% ± 3%	± 1.5% ± 3%	± 1.5% ± 3%
Max. pressure loss		mbar	≤ 2	≤ 2	≤ 2
Operating temperature		°C	-25 ~ +55		
IP degree			IP65		
Working voltage		V	4.8~6.5		
Average current		µA	≤ 25		
Battery life		years	≥10 years (one time upload a day)		
Battery type			Lithium battery		
Data storage		years	10		
Communication mode			LoRA/LoRaWAN		
The success rate of meter reading		%	95		
Single concentrator network scale		PCS	>2000		



Dimensions Diaphragm gas meter Atmos® IG1.6S-W | IG2.5S-W | IG4S-W								
A	[mm]	110 ± 0.50	130 ± 0.50		152.4 ± 0.50			
B		M30 x 2 - 6 g	G¾B	G⅞B	G1B	G1¼B	NPT ¾″	BS746 1″
C	[mm]	218	226					

Atmos ® - GPRS / NB-IoT Smart Diaphragm Gas Meter

G1.6S-GI | G2.5S-GI | G4S-GI | WG2.5S-GI

GPRS/NB IOT gas meter is a smart gas metering product based on ZENNER mechanical diaphragm gas meter,combined with a built-in shut-off valve basement and a smart controller with GPRS/NB-IoT communication module.

With the connection of GPRS/ NB-IoT wireless network, the following functions could be realized:

Performance characteristics

- Data transmitted to cloud platform for analyzing
- Block pricing
- Alarm: low balance and low battery alarm, temper alarm, leakage alarm, overflow alarm, etc.
- Remote monitoring, remote control
- Remote valve control
- Automatic shut-off valve
- Combined with new media channels to achieve remote charging and real time interaction
- GPRS/ NB-IoT communication technology
- Optical sampling
- Fast shut-off valve
- Lithium battery with more than 10 years life time

Size:

G1.6S-GI: 0.016 m^3/h to 2.5 m^3/h

G2.5S-GI : 0.025 m^3/h to 4m^3/h

G4S-GI : 0.04 m^3/h to 6m^3/h

WG2.5S-GI: 0.016m^3/h to 6m^3/h

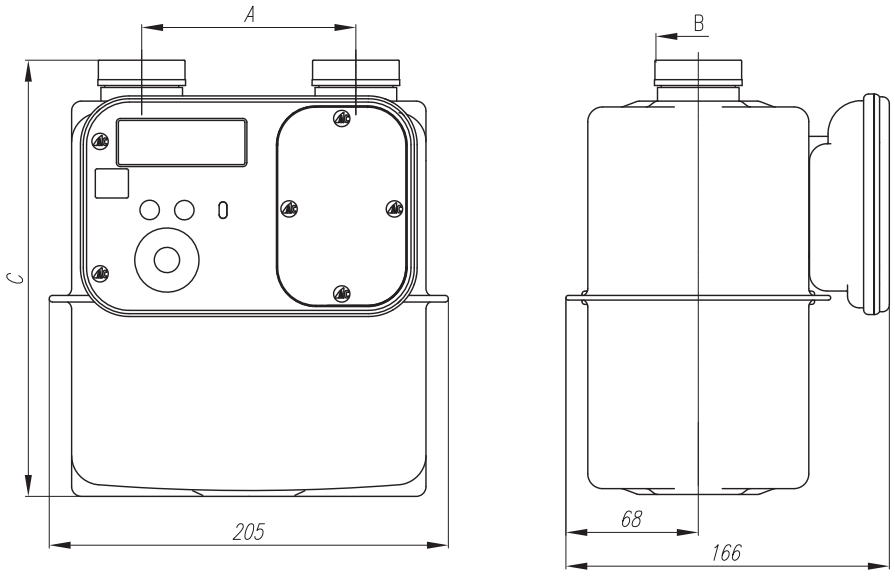
Gas media:

- Natural gas
- Town gas
- Biogas
- Liquid gas
- Methane gas

Housing material:

Galvanized steel sheet

Technical data Atmos® G1.6S-GI | G2.5S-GI | G4S-GI | WG2.5S-GI						
Type			G1.6S-GI	G2.5S-GI	G4S-GI	WG2.5S-GI
Nominal flowrate	Q_n	m³/h	1.6	2.5	4	2.5
Maximum flowrate	Q_{max}	m³/h	2.5	4	6	6
Minimum flowrate	Q_{min}	m³/h	0.016	0.025	0.04	0.016
Maximum operating pressure		bar	0.5	0.5	0.5	0.5
Maximum permissible errors	$0.1\ Q_{max} \leq Q \leq Q_{max}$ $Q_{min} \leq Q < 0{,}1Q_{max}$		± 1.5% ± 3%	± 1.5% ± 3%	± 1.5% ± 3%	± 1.5% ± 3%
Max. pressure loss		mbar	≤ 2	≤ 2	≤ 2	≤ 2
Display range max.		m³/h	99999.9998	99999.9998	99999.9998	99999.9998
Display range min.		m³/h	0.0002	0.0002	0.0002	0.0002
Cyclic volume		dm³	1.2	1.2	1.2	1.2
Accuracy class		class	1.5	1.5	1.5	1.5
Weight		kg	2.2	2.2	2.2	2.2
Data acquisition			Double pulse (0.1m3) or photoelectric direct			
Communication mode			GPRS / NB-IoT			
Communication cycle			hours, days, months.			
Battery life			Lithium battery ≥ 10 years (upload once a day)			
Meter reading success rate per time			≥ 99%			



Dimensions Diaphragm gas meter Atmos® G1.6S-GI | G2.5S-GI | G4S-GI | WG2.5S-GI								
A	[mm]	110 ± 0.50	130 ± 0.50					
B		M30 x 2 - 6 g	G¾B	G⅞B	G1B	G1¼B	NPT ¾″	BS746 1″
C	[mm]	218	226					

Atmos ® XL - Industrial & Commercial diaphragm gas meter

Commercial gas meters G6S | G10S | G16S | G25S

The Atmos® XL series of commercial gas meter is extremely suitable for the conditions of hotels, restaurants, factories and other commercial settings.

The meter is characterized by precise measurements, a constant measuring stability, a long life and high reliability. Thanks to the use of high-grade materials, the diaphragm gas meter is resistant to corrosion. The gas meter is suitable for various gas media.

The Atmos® XL industrial & commercial Diaphragm gas meter meets the requirements of the EN1359:1998/A1:2006 and OIML R137-1 (2012) standards.

Performance characteristics

- Approved in accordance with MID by NMi
- Integrated system to adjust the error curve
- Galvanized powder-coated steel housing for maximum corrosion resistance
- Starting flow: G6 = 8 dm³/h; G10, G16 = 13 dm³/h; G25 = 20 dm³/h
- Working temperature range: -25 °C to +55 °C
- Operating pressure: 0.5 bar
- Long-term stability due to usage of high-quality diaphragms
- Retrofittable with pulser
- Optional: reverse flow preventer

Sizes:

G6S : 0.06 m³/h to 10 m³/h

G10S : 0.10 m³/h to 16 m³/h

G16S : 0.16 m³/h to 25 m³/h

G25S : 0.25 m³/h to 40 m³/h

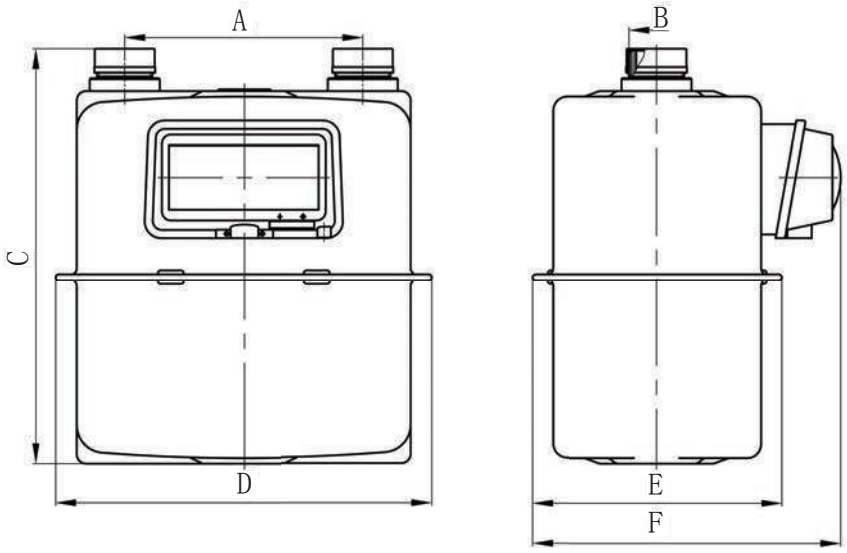
Gas media:

- Natural gas
- Town gas
- Biogas
- Liquid gas
- Methane gas

Housing material:

Galvanized steel sheet

Technical data Atmos® XL G6S | G10S | G16S | G25S						
			G6S	G10S	G16S	G25S
Nominal flowrate	Q_n	m³/h	6	10	16	25
Maximum flowrate	Q_{max}	m³/h	10	16	25	40
Minimum flowrate	Q_{min}	m³/h	0.06	0.10	0.16	0.25
Operating pressure range		KPa	0.5 ~ 50	0.5 ~ 50	0.5 ~ 50	0.5 ~ 50
Cyclic volume		dm³	2.5	5	8	15
Max. permissible errors	$0.1\ Q_{max} \le Q \le Q_{max}$ $0.1Q_{max} \le Q \le Q_{min}$				± 1.5% ± 3%	
Maximum pressure loss		mbar	≤ 2		≤ 3	
Display range max.		m³/h	99999.9998		999999.998	
Display range min.		m³/h	0.0002		0.002	
Accuracy class	class		1.5	1.5	1.5	1.5
Weight		kg	4.1	7.8	7.8	15.6



Dimensions Commercial gas meter Atmos® XL G6S | G10S | G16S | G25S					
		G6S	G10S	G16S	G25S
A	mm	160 ± 0.50	200 ± 0.50	240 ± 0.50	300 ± 0.50
B	mm	G1 ¼″	G2″	G2″	M80x3
C	mm	273.5	327.5	375.5	437
D	mm	254.5	316	355.5	438.8
E	mm	168.6	191	213	262.5
F	mm	192	216	238	285.5

AMR-system for gas meters

AMR-system for wired and wireless communications

The automated meter reading system is an optimal solution for all gas suppliers. It enables improved meter management and the implementation of a uniform pricing system. The AMR-system allows the gas supplier:

- Retrieval of customer data and analysis of consumption data
- Creating consumption statistics
- Remote control of gas valves
- Adaptation of the current gas prices and the available credit
- Upload of counter-operating situations to the central server

Performance characteristics

- Time and cost savings
- Collection of consumption data in real time
- Two methods for gas billing (gas or cash balance)
- Several possibilities of data collection:
  - Data collection with handheld / PDA
  - Data collection via network
  - Data collection by mobile data collectors
- No meter exchange when moving from handheld to GPRS
- Minimized losses caused by fluctuating gas prices
- Remote adjustment of the gas price to the current market price
- Multi-level data encryption
- Professional, easy-to-use software for managing and viewing of customer and meter data and sales figures

System Components

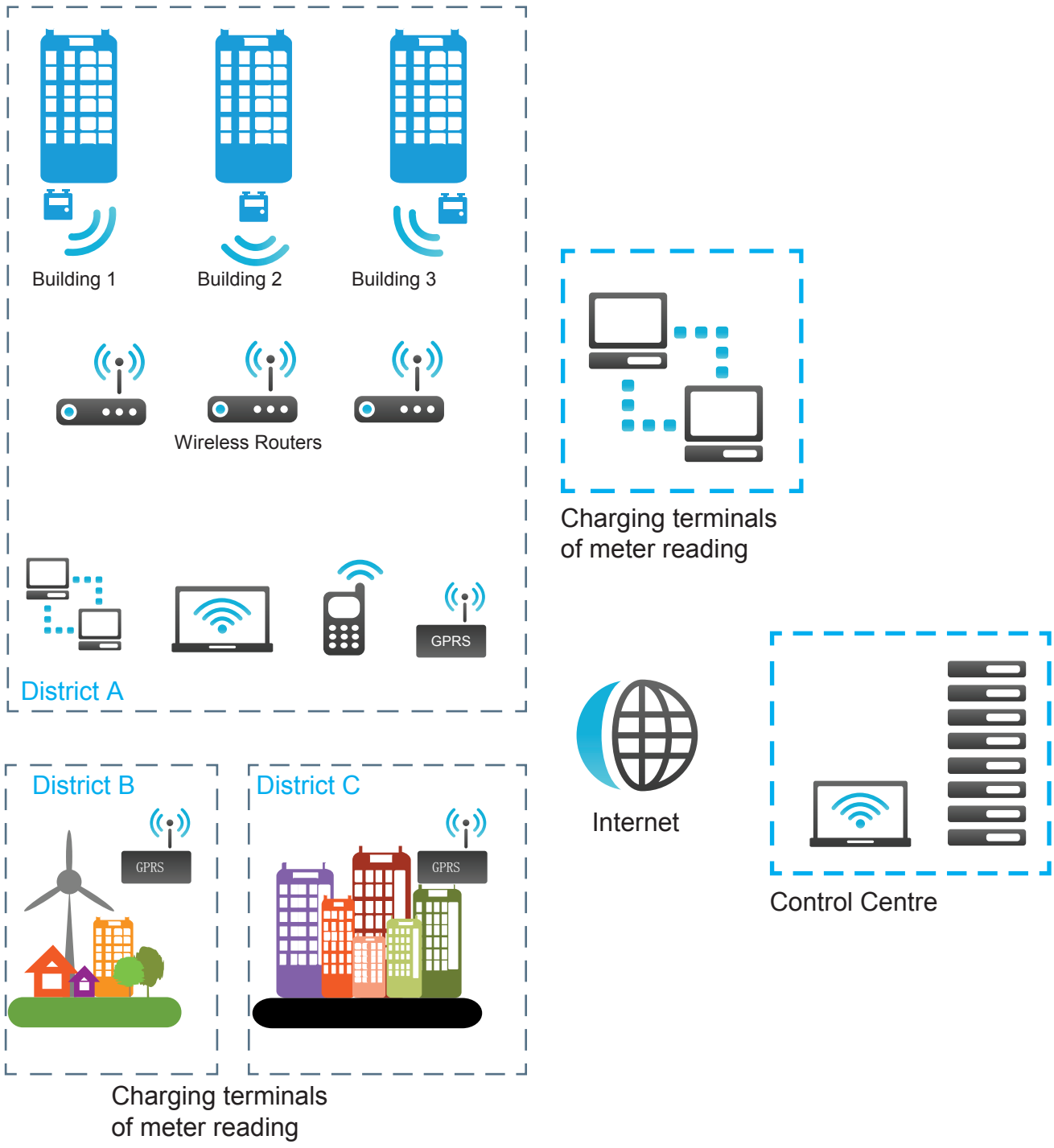
- Software for administration and remote-control
- Data collector
- Router
- PDA

To use with:

Intelligent gas meters of the IGS-W - series

Intelligent gas meters of the IGS-WI - series

AMR-system overview



PDC-Communication module

Gateway for the integration of meters with pulse outputs in remote reading systems

The PulseDataCapture module is optimal for the integration of measuring instruments with pulse output in radio reading systems.
The consumption data of water-, energy heat-, gas-, oil- and other electricity meters with pulse output can be transferred by means of this gateway wireless to a wM-bus receiver.
The gateway is battery powered. The battery lifetime is depending on the version, the transmission interval and the ambient conditions and can reach 15 years.

Model variant:

Our PDC module is available in two versions:

- wireless M-bus radio module according to OMS standard (868 MHz), EN 13757-4
- Radio via LPWAN (LoRaWAN™, SIGFOX)

Smart Metering Functions:

- Self-monitoring
- Leakage detection
- Meter stop detection
- Meter oversized detection
- Meter undersized respectively pipe burst detection

Typical applications:

- Radio reading of water meters with walk-by or drive-by system
- Remote reading of meters with pulse output via the stationary readout system Z.RTU from ZENNER.

Main features

- Plastic housing incl. wall bracket
- Infrared interface
- Pulse and Open-Collector signals processible
- Battery powered
- Protection class IP54 or IP68 as an option
- Versions with connected ZENNER Reed pulser (cable length 1,5m) for the model ranges ETKD-N/ETWD-N, MNK-N, MTKD-N/MTWD-N, RTKD-N available
- Version with lose cable end to be connected to an external meter with pulse output available
- Optionally: to be connected with 2 meters with pulse output

Technical data

General performance characteristics:	
Power supply	Long life battery up to 15 years battery lifetime (depending on the version)
Battery status monitoring	yes
Operating temperature	10°C…40°C; -15°C…60°C (temporarily)
Data logger:	
Annual due dates values:	max. 16
Monthly values max	max. 192, plus max. 192 semi-monthly values
Daily values	max. 96
Quarter hour values	max. 96

Technical data PDC-radio:	
Tranmission mode	wireless M-Bus unidirectional, Standard: T1; optionally S1, C1
Encryption	AES 128 according to OMS (device-specific), with factory key or not encrypted as an alternative
Data contents	current value, current date, due date, monthly value, historical monthly values for telegram type A, status information
Transmission interval	20-40 sec., depending on telegram type and number of inputs
Transmission power	25 mW

Data contents (wM-Bus)

The PDC module can be delivered with various data telegrams.

Data protocols	Type A*	Type B*	Type C**
Current value	✘	✘	✘
Current date	✘	✘	
Due date		✘	✘
Monthly value, previous month	✘	✘	✘
Further 11 monthly values	✘		
Status information 1	✘	✘	✘
Status information 2	✘	✘	✘

* Data telegram according OMS Spec., Transmission interval Type A: typical: 40 sec., Type B: typical 40 sec. ** wM-Bus, manufacturer specific data telegram, Transmission interval 20 sec

Set up:

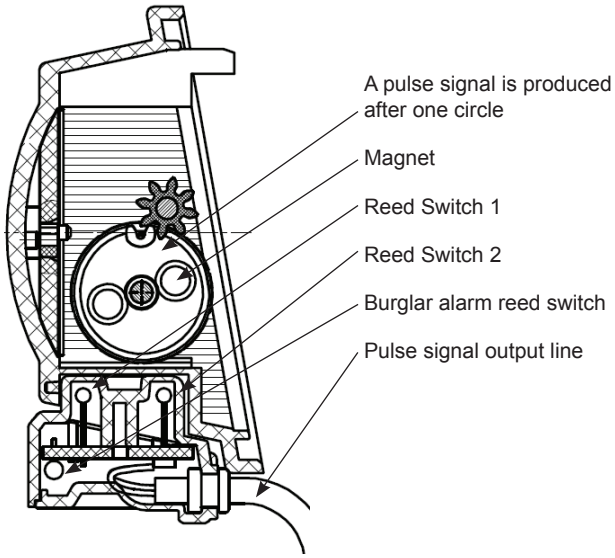
The configuration of the PDC-module is made via the optical interface with using of the ZENNER MinoConnect with ZENNER Optohead IrCombiHead and the right ZENNER software.

Other alternative Android-software solutions from our partners can be used.

Zenner Gas Meter Supporting Index Assembly Reed Switch Pulse transmitter

Type PT-B-1.5

ZENNER gas meter supporting index assembly (reed switch) is a key part which offers counting pulse signal and burglar alarm signal to the control board. The function will be finished through plastic housing which fixes board, reed switch which is installed on the board and magnet inside of drum. Closed reed switch on the board has function of burglar alarm. It transmits pulse signal and burglar alarm by the outlet cable on the board to the control board.



Application

Retrofittable pulse transmission from a mechanical index.

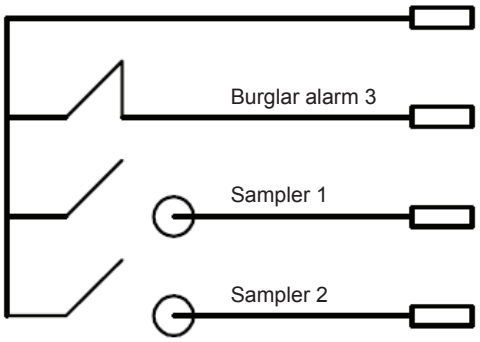
Operating principle:

- Counting: when the magnet of the drum on the index moves within the range of reed switch,a pulse signal emerges. When the drum of index moves one circle, an open and close signal is produced periodically in reed switches of the sampler.
- Burglar alarm: when outer magnet approaches reed switch(or connecting line breaks), an open and close signal is produced.

Diaphragm gas meter with pulse transmitter

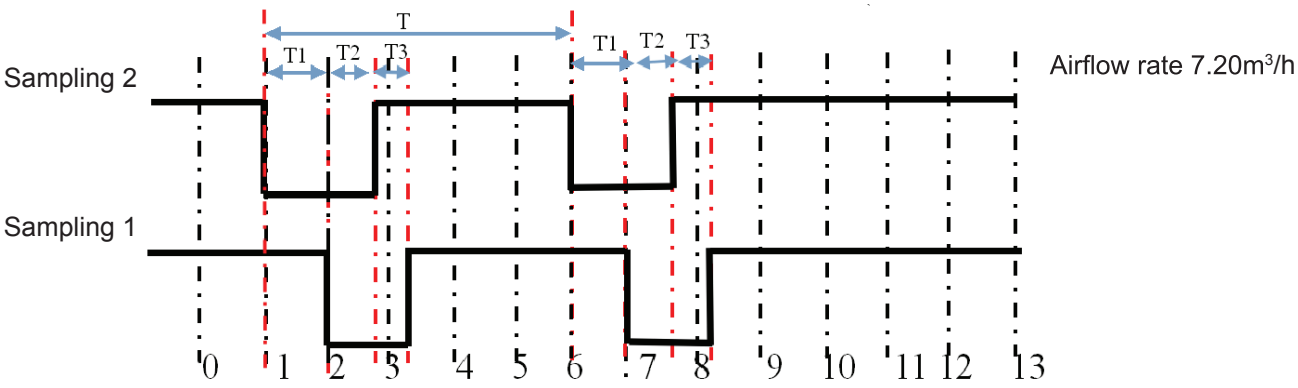
Technical data	
Lifetime	$1x10^7$ (Lifetime)
Voltage	0-30V
Current	Max. 0.2A
Contact Resistance	100m Ω
Isolation Resistance	10^9 Ω

Output interface



Sampler 1, sampler 2 periodically open; burglar alarm 3 periodically close.

Sampling Sequence Chart



T = 5s, T1 = 0.96s, T2 = 0.86, T3 = 0.30s

Remarks	
T1	Total time when the sampling digit roller moves one circle (sampling cycle time)
T1	The time that reed switch J1 breaks while J2 is closed
T2	The time that both reed switch J1 and J2 are closed
T3	The time that reed switch J1is closed while J2 breaks

По вопросам продаж и поддержки обращайтесь:

Алматы (727)345-47-04
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
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Вологда (8172)26-41-59
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