



Gas meters

Products catalogue



Smart gas measurement with remote control



hybridSMART

Modular concept of smart index

hybridSMART is the product from Apator Metrix dedicated for flexible Smart Gas Metering solutions. Retaining the best functionality from the traditional conservative mechanical index while implementing various of Smart Technology including Shut-Off-Valve, Temperature Compensation and Radio Modules. This package is MID-approved whilst offering OEM-customers enough space in separate compartments to integrate their own printed circuit boards providing additional functionalities as communication modules, valve control with related PAYG functionalities and others.

hybridSMART provides you with great versatility you can choose from. It offers a platform you can build your own Smart Gas Meter.

hybridSMART has been developed based on the experience of the production of hundreds of thousands of smart meters for the EU markets in recent years.

VERSATILITY

HYBRID SOLUTION

The Product offers 2 in 1 in terms of the gas consumption registration. Mechanical Index and Electronic Encoder under one common housing. Additional internal electronic modules offer various combination of extended functionalities.

OEM COMPARTMENT

Designed for OEM manufacturers. Index has available internal compartment where OEM customers can design their own circuit board integrating their own additional functionalities.

RANGE OF PRODUCTS

Compatible with UG-series 1.2 l and 2.2 l measuring units offering meters ranging from G1.6 to G6 with bosses spacing: 0 mm, 100 mm, 110 mm, 130 mm, 152.4 mm, 160 mm, 220 mm, 250 mm.

ZERO PRESSURE DROP SHUT-OFF-VALVE

Products can be equipped with optional internal ball-valve. Highest security of valve operations is ensured by the endstop microswitch detecting real position of the valve (open/closed). Custom designed for Metrix UG-series 1.2l and 2.2l measuring units. Tested and approved for Class 1 according EN16314.

ABSOLUTE ENCODER

High-End IP protected Swiss technology of Absolute Encoder offers real-state scanning of the mechanical index. Reading on demand ensures highest possible energy saving and 100% guaranteed readings.

INCREMENTAL ENCODER (AS AN OPTION TO ABSOLUTE ENCODER)

Cost-effective recording and archiving electronic module for gas volume encoding based on field proven optical detection using graycode disc.

RADIO MODULES WITH DEDICATED INTERNAL ANTENNAS

868 Mhz Wireless M-BUS in accordance with EN13757-3 and OMS

MECHANICAL TEMPERATURE COMPENSATION

Products can be equipped with mechanical temperature compensation fitting UG 1.2 l and UG 2.2 l measuring units (version with mechanical TC: $V = 1.15 \text{ dm}^3$ and $V = 1.9 \text{ dm}^3$).





iSMART

Modular concept of smart electronic index

SMART FEATURES

- Electronic and traditional mechanical seals for MID battery and communication compartments
- Backup battery
- Real time battery life monitoring
- Real time clock accuracy $\pm 0.5s/day$
- Safe valve opening procedure
- Optional valve closure upon tamper detection
- Detection of the external magnetic field
- Tamper detection in case of unauthorised opening of the cover or trying to remove index
- Earthquake detection event log books
- Load profile 13 months long, 30 min periods
- COSEM/DLMS Firmware compliant
- Firmware remotely upgradeable - future proof design

TECHNICAL DATA

| | |
|--|--|
| Standards/Directives/Compliances | 2004/22/EC (MID), 2004/108/EC (EMC), EN1359:1998+A1:2006, EN16314, AR631/13, UNI/TS11291, WELMEC7.2, 2014/53/EU (RED) |
| Gas meter class | 1.5 (with error curve correction) |
| Mechanical Class | M1 |
| Pmax (also with valve included) | 50kPa (0.5 bar) |
| Temperature range | -25°C... +55°C |
| Resistance to high ambient temperature | T@0.1bar acc. EN1359 |
| Index measuring resolution | 00000.0000 m ³ |
| Nominal cyclic volume | 1.2 dm ³ (optional 2.2 dm ³) |
| Weight | ~2.2 kg |
| Family of gases | 1.2.3 acc. EN437:2003+A1:2009 |
| Smart Electronic Index Ingress Protection Rating | IP65 acc. EN60529 |
| ATEX | Zone 2 |
| Body & Coating | Zinc-coated pressed steel plate powder painted RAL7035 |
| Band | Stainless steel |
| Shut-Off Valve (optional) | Shut-off zero pressure ball-drop valve. Endstop microswitch detecting real position of the valve (open/closed state) ensures highest security operation. Custom design by Metrix for UG-series measuring units. Tested and approved for Class 1 according to EN16314, Gas Meter with valve has a pressure drop at range of 150 Pa at 6m ³ /h |
| Cable through | Pins gold plated, glass-ceramic, high temperature resistant, helium leakage tested |
| Service Interface | IR acc. EN62056-21 |
| Batteries | Lithium Thyonyl-Chlorides C+D cells. The battery life depends from operating condition and technologies. Up to 15 years |
| Communication modules | Wireless M-Bus 169 Mhz, Wireless M-Bus 868 MHz OMS, NB-IoT, GSM |
| Communication protocols | DLMS/COSEM compliant UNI/TS 11291-11 Wireless M-BUS OMS compliant EN13757, Smart Gas compliant ST-IGG-0201:2018 |
| Internal and external antennas | Internal antenna as default, optional external antenna to extend rangeability. |
| Smat volume reading | Low power, electronic solid state. Hall Effect sensor (patent pending) |
| Temperature compensation | Real NTC temperature measurement in the gas stream |
| LCD display | Large and clear view enabling LCD display with backlight illumination. Customisable to present: <ul style="list-style-type: none"> ■ (Vm) Volume at measuring condition [m³] ■ (Vc) Corrected volume by error curve correction algorithm [m³] ■ (Vb) Volume at base condition [m³] ■ Instantaneous flow rate [m³/h] ■ Maximum demand (peak flow) ■ Measurement displayed to 0.1 litre resolution (00000.0000 m³) |
| Customisation | Product can be easily customised to meet customer requirements in functionality, communication and design. The front layout and coloured frame can be adjusted to fit "Customer Branding". |
| Dimensions | See table on page 19 and 21 |



SEI Smart Gas Meter

MAIN FEATURES

FLEXIBLE FUTURE PROOF

- New 2nd generation index design
- Very low pressure drop using ball valve technology
- Display and Main Board protected MID cover and primary tamper evident MID seal
- Available as either Front Viewing or Top Viewing Index (TVI) / Semi Concealed
- Interoperability with Smart Electricity Meters and In Home Display Units (IHD)
- Low power, electronic solid state, Hall Effect sensor (patent pending)
- High tech / state of the art electronic design with high quality components
- In service replacement of communications module
- Remotely upgradeable firmware
- Design in accordance to smart meter specifications

SMART FEATURES

DATA MANAGEMENT

- Configurable time-of-use tariffs
- Profile recorder
 - 2 channels with independently configurable data capture
 - Channel 1:
 - Designed for general energy measurement
 - Configurable intervals (6,10,15,20,30 and 60 minutes)
 - Configurable capacity: dependant on registered reading requirements
 - Channel 2:
 - Designed for billing profile
 - Configurable intervals (day, week, month or specific day)
 - Configurable capacity: dependant on required tariff registers and consumption
- Data logger with five independent FIFO buffers (up to 50 events)
 - General (informational, clocks, schedules...)
 - Fault (general system faults)
 - Security (password activities)
 - Communications (session statistics)
 - Valve control (opening, closing...)
- Configurable AUTO and MANUAL scroll sequence with up to 16 entries
- Firmware upgrade through RF communication channel
- Optional prepayment feature

TAMPER PROTECTION

- 30 days backup battery (to support logging and clock maintenance)
- Supervision of the battery capacity and generating alarms in case of crossing low or failure level capacity
- Communication and battery tamper protection through compact housing design
- Tamper detection upon removal of index from meter housing
- Valve closure upon tamper detection
- Detection of the external magnetic field
- Data logger and display alarms

COMMUNICATION

- Optical interface according to the IEC 62056-21 (C mode) for reading and parameterisation of the smart gas index
- User friendly software package for reading, calibrating and parametrisating for PC and Hand Held Units
- Communication module – universal interface for various connections including
 - ZigBee 2,4 GHz (UK specification) for domestic smart gas meters
 - Wireless MBus 868 MHz (NL specification) for industrial and commercial smart gas meters
- Able to communicate with HDU if required
- Flexible communications platform

TECHNICAL DATA

METER SPECIFICATION

- Index specification: Weight < 0.3kg, Dimensions: 94 (H) x 142 (W) x 45 (D)
- Powdercoat RAL 7035 (light grey)
- Stainless steel band
- Cyclic volume 1.2 dm³ or 2.2 dm³
- Distance between connectors 152,4mm (6")

MEASUREMENT

- Proven and reliable diaphragm gas meter
- High accuracy multipoint calibration throughout the flow range
- Register and calculation of the:
 - Volume at measuring condition [m³]
 - Corrected volume [m³]
 - Volume at base condition [m³]
 - Energy [kWh]
 - Instantaneous flow rate [m³/h]
 - Maximum demand (peak flow)
- Measurements displayed to 1 litre resolution (0.001 m³)

INDEX SPECIFICATION

- Battery: 1 x 3.6V, Lithium Thyonyl-Chloride
- Min. 15 year calculated battery life
- Real time battery life monitoring
- Operating temperature range: -20°C to +55°C
- Real time clock accuracy: ±0.5s/day
- Minimum water and dust protection IP65 (IEC 60529)
- Individual battery and communication compartments
- Single removable front cover
- 2 button user interface:
 - Menu functions
 - Valve control
- Large and clear view enabling LCD display with backlight illumination
- Integral valve for closing and opening of the gas flow:
 - Closing: remote command, configurable tamper and battery failure
 - Safe reopening: through end user manual confirmation by pressing valve control button
- MID and ATEX compliant



uniSMART

Communication module for gas meters

uniSMART is the product of Apator Group dedicated for AMR systems in the gas industry and constitutes a cheaper alternative to the smart meter. It is designed for customers and users not requiring full functionality offered by smart gas meters and also where low gas consumption and lower frequency of reading requires the use of economic relevant technologies.

At the same time, it is a product offering broad functionality for reading gas and its balancing in the network, in line with European standards. uniSMART is another proposition of our company to realise the challenge of widespread implementation of smart metering in the EU countries.

UniSmart is based on the experience of the production of hundreds of thousands of smart meters for the EU markets in recent years.

THE BASIC FEATURES

- **Versatility** – suitable to be connected to any type of meter equipped with a burglary Apator Metrix S.A. index, produced after 2005.
- **Easy to install and setup** – connected as a standard impulse transmitter in the meter hanging in the network and configured wirelessly.
- **Interoperability** – the usage of open communication protocol in accordance with standards EN 13757-3 and EN 13757-4 provides interoperability with devices of other manufacturers and the ability to communicate within a single system AMR. Reading is carried out by radio. The product is compatible with other existing technical specifications in the EU countries, such as OMS.
- **Flexibility** – can be used in walk-by or stationary systems. We also offer software for these systems operating on readily available equipment (e.g. android based smartphones).

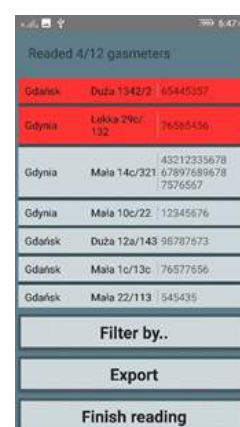
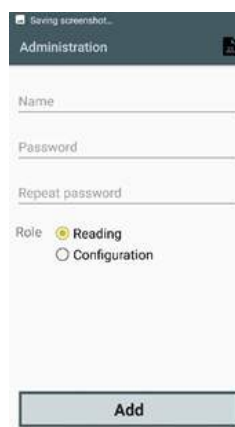
FUNCTIONAL FEATURES

- An open, widely communication protocol used wireless M-Bus based on European Standard, EN 13757-3 and EN 13757-4.
- Modes:
 - T1 (transmission frame with readings)
 - T2 (parameterisation module)
 - service mode
- Count the number of pulses
 - 1 pulse means 1 rotation of the last drum with the least significant digit of mechanical index
 - an algorithm of elimination errors caused for example by vibration of drum in mechanical index
- Recalculation of pulses per volume (m^3)
- History of flows (60 - daily, 120 - monthly)
- The alarm log
 - interference by an external magnetic field
 - exceeding the maximum flow (Q_{max})
 - no pulses
- Firmware upgrade through RF communication channel
- Estimated time of battery discharge
- Power 1x AA lithium battery
- Operation time without replacing the battery (above 10 years)
- Parametrisation
 - initial state
 - time (date, time)
 - definition of flow precision
 - definition of broadcast schedule the reading frame
 - definition of the contents of a sent frame
- Optional parameters sent in a radio frame
 - volume of the last billing period
 - battery status
 - gas meter type
 - spacing of connector pipes
 - manufacturer
 - year of production
 - installation number
- Data Encryption AES-128 in accordance with OMS, in accordance with EN 13757-3:
 - OMS specification (with dynamic initialisation vector)

MOBILE PHONE APP FOR WIRELESS M-BUS 868 MHZ

Inkasent Mobile application:

- compatible with Android versions 6, 7 and 8
- currently supports English and Polish languages (other at customer's request)
- includes a login and user management system and a system granting rights to users
- allows reading the status of UniSmart and HybridSmart gas meters
- signals the gas meter status/failures
- all data is encrypted - meet the requirements of GDPR
- the package also includes desktop applications for:
 - creating application user lists
 - creating reading lists
 - encrypting and decrypting user lists and gas meters (csv format)





Aluminium
case 110



000



100 / 110 / 130 mm



152.4 mm (6")



160 mm



220 mm



250 mm



000



130 mm



152.4 mm (6")



220 mm



250 mm



000



130 mm



220 mm



250 mm



280 / 335 / 400 mm



152.4 / 250 / 280 / 300 mm



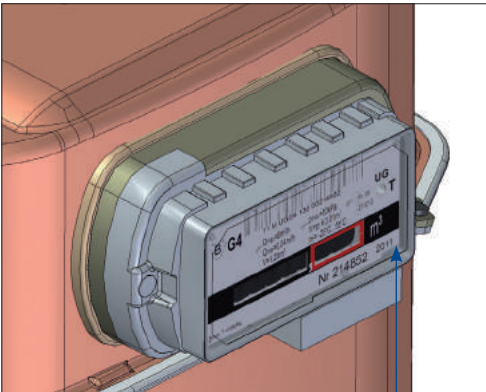
Residential and commercial gas meters with mechanical index

| Type | | UG G1.6 | UG G2.5 | UG G4 | UG G4 | 2UG G6 | UG G10 | UG G16 | UG G25 |
|---|-------|--|---------------|----------------------|-----------|-----------|----------|----------|----------|
| Maximum flow rate | m³/h | 2.5 | 4 | 6 | 6 | 10 | 16 | 25 | 40 |
| Minimum flow rate | m³/h | 0.016 | 0.016 / 0.025 | 0.016 / 0.025 / 0.04 | 0.04 | 0.06 | 0.1 | 0.16 | 0.25 |
| Nominal flow rate | m³/h | 1.6 | 2.5 | 4 | 4 | 6 | 10 | 16 | 25 |
| Cyclic volume | dm³ | 1.2 | 1.2 | 1.2 | 2.2 | 2.2 | 5.6 | 5.6 | 11.2 |
| Max working pressure | bar | 0.5 / 2* | 0.5 / 2* | 0.5 / 2* | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Index max indication | m³/h | 99999.999 | 99999.999 | 99999.999 | 99999.999 | 99999.999 | 99999.99 | 99999.99 | 99999.99 |
| Starting flow rate | dm³/h | 3 | 5 | 5 | 5 | 8 | 13 | 13 | 20 |
| Fireproof up to 650 °C according to EN 1359 | bar | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Thread | | Threaded connections may be manufactured acc. to any international norm (ISO; ANSI; British Standard etc.....) | | | | | | | |

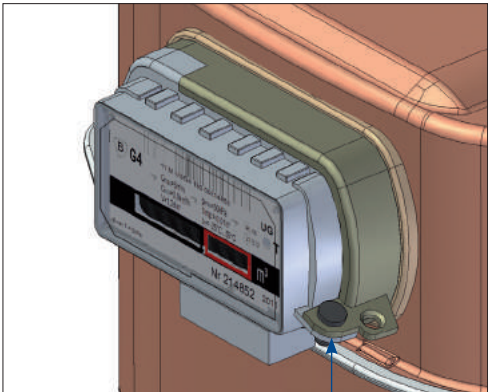
*) Aluminium case

Innovative index

with innovative protection against fraud



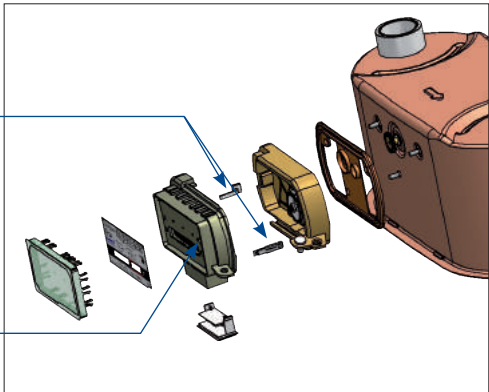
NEW GENERATION SOLUTION FOR SEAL
Stamp from inside



PLACE FOR APPLYING
LEAD SEAL (OPTIONAL)

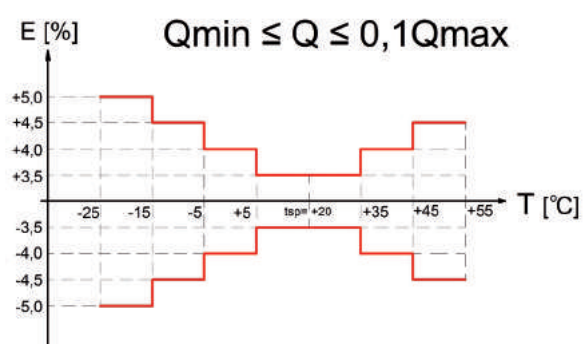
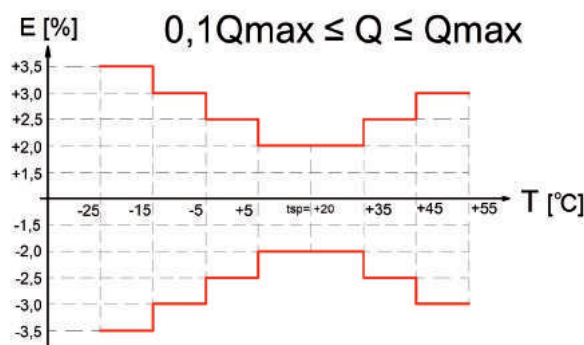
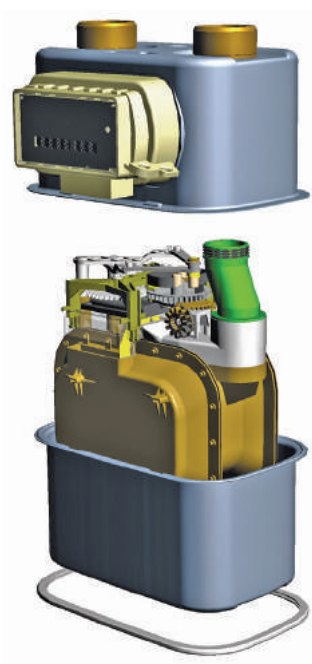
INDEX BLOCKADE
Applying (or not applying) decides,
if the index is disassemblable
or non-disassemblable

BLOCKADE OF COUNTING
REVERSE FLOW



MECHANICAL TEMPERATURE COMPENSATION

Gas meters UG G1.6 up to UG G4 can be equipped with mechanical temperature compensation (bimetal).



Gas is a substance subject to thermal expansion, which means that depending on temperature, it increases or decreases its volume. Consequently, what changes is the measuring accuracy of a gas meter with relation to its energy content. In other words when gas with some energy content, volume and temperature is already in pipes and is heated, then the index unit is to show a bigger consumption after flow, whereas when gas is cooled, the gas meter will indicate a lower consumption. It is a very important issue as a temperature change of 3°C corresponds to a volume change of approximately 1%. Such considerable temperature changes are likely to occur especially to meters placed on the outside of a building. Consequently the meter works at various temperatures depending on the season. A gas meter with temperature compensation provides a solution to this problem as it uses and undergoes thermal expansion as well. A temperature compensation mechanism installed in the measuring unit is adjusted in such a way so that it changes the cyclic volume of the measuring mechanism exactly like gas undergoing expansion due to temperature changes. Elements responsible for compensation installed in the meter allow a radial shift of the diaphragm, which results in moving the curve of typical error up or down in relation to the zero line.

Thus the gas meter converts the measured value of gas volume into its value at fiducial temperature – irrespective of measuring temperature.

UG SERIES V=1.2 dm³

UG 1.2 dm³ series gas meters are designed for measurement of gas supplied to apartments where consumption of gas does not exceed 6 m³/h of air density of 1.2 kg/m³.

THE GAS METERS CAN BE USED FOR MEASUREMENT OF:

- Natural gas
- City gas
- Propane-butane gas

Gas meter is equipped with pulse magnet as standard. Pulse transmitter can be added at any time (1 imp = 0.01 m³).



TECHNICAL DATA

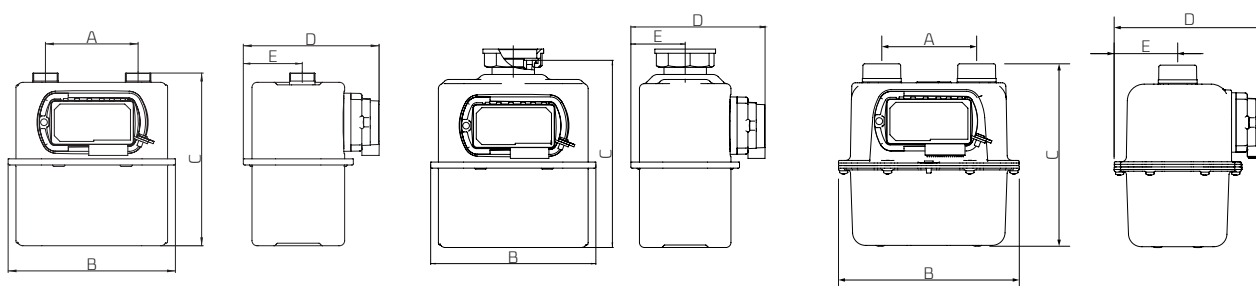
| | | UG G1.6 | UG G2.5 | UG G4 |
|---|--------------------|-----------|---------------|-----------------------|
| Maximum flow rate | m ³ /h | 2.5 | 4 | 6 |
| Minimum flow rate | m ³ /h | 0.016 | 0.016 / 0.025 | 0.016 / 0.025 / 0.040 |
| Nominal flow rate | m ³ /h | 1.6 | 2.5 | 4 |
| Cyclic volume | dm ³ | 1.2 | 1.2 | 1.2 |
| Max working pressure | bar | 0.5 / 2* | 0.5 / 2* | 0.5 / 2* |
| Index max indication | m ³ /h | 99999.999 | 99999.999 | 99999.999 |
| Starting flow rate | dm ³ /h | 3 | 5 | 5 |
| Fireproof up to 650 °C according to EN 1359 | bar | 0.1 | 0.1 | 0.1 |

*) Aluminium case

ADDITIONAL INFORMATION ON GAS METERS WITH MECHANICAL TEMPERATURE COMPENSATION

| | UG T |
|---|----------------------|
| Cyclic volume | 1.15 dm ³ |
| Allowable indication errors limits during initial verification: | |
| - Q _{min} to 0.1 Q _{max} | ± 3.5% |
| - 0.1 Q _{max} to Q _{max} | ± 2.0% |
| Temperature range | -25 ÷ 55°C |
| UG T - TC correction range: | |
| - standard | -10 ÷ 40°C |
| - optional | -25 ÷ 40°C |

DIMENSIONS

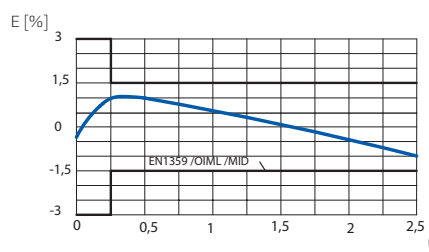


| A [mm] | B [mm] | | C [mm] | | D [mm] | | E [mm] | | Weight [kg] |
|--------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|-------------|
| | Steel case | Alu case* | Steel case | Alu case* | Steel case | Alu case* | Steel case | Alu case* | |
| 000 | 200 | — | 227 | — | 161 | — | 65 | — | ~1.7 |
| 100 | 200 | 210 | 205 to 211 | 210 | 161 | 175 | 70 | 74 | ~1.7 |
| 110 | 200 | 210 | 205 to 211 | 210 | 161 | 175 | 70 | 74 | ~1.7 |
| 130 | 200 | — | 205 to 211 | — | 161 | — | 70 | — | ~2.0 |
| 152.4 | 235 | — | 268 | — | 177 | — | 73 | — | ~3.0 |
| 160 | 235 | — | 240 | — | 177 | — | 73 | — | ~3.0 |
| 220 | 283 | — | 222 | — | 176 | — | 72 | — | ~2.0 |
| 250 | 325 | — | 222 | — | 177 | — | 72 | — | ~3.2 |

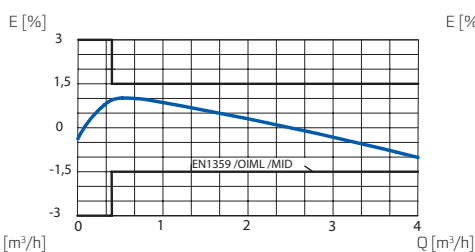
*) Aluminium case

CURVES OF TYPICAL ERROR AND PRESSURE LOSS

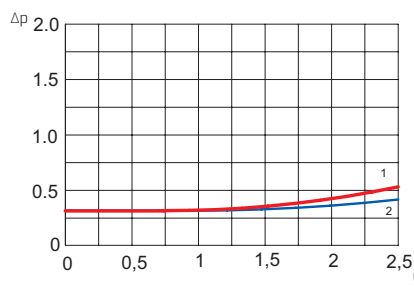
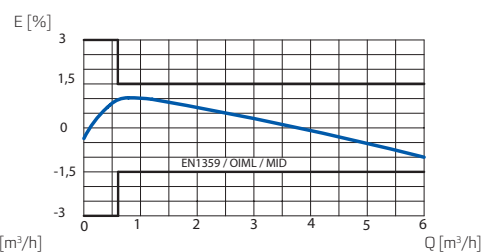
UG G1.6



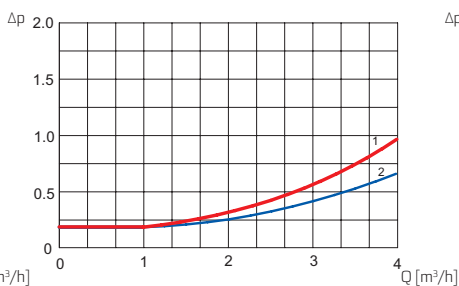
UG G2.5



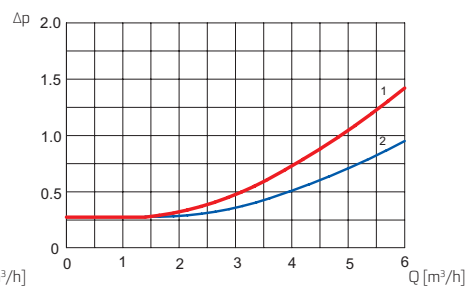
UG G4



1) Air
2) Natural gas



1) Air
2) Natural gas



1) Air
2) Natural gas

UG SERIES V=2.2 dm³

UG 2.2 dm³ series gas meters are designed for measurement of gas supplied to apartments where consumption of gas does not exceed 10 m³/h of air density of 1.2 kg/m³.

THE GAS METERS CAN BE USED FOR MEASUREMENT OF:

- Natural gas
- City gas
- Propane-butane gas

Gas meter is equipped with pulse magnet as standard. Pulse transmitter can be added at any time (1 imp = 0.01 m³).



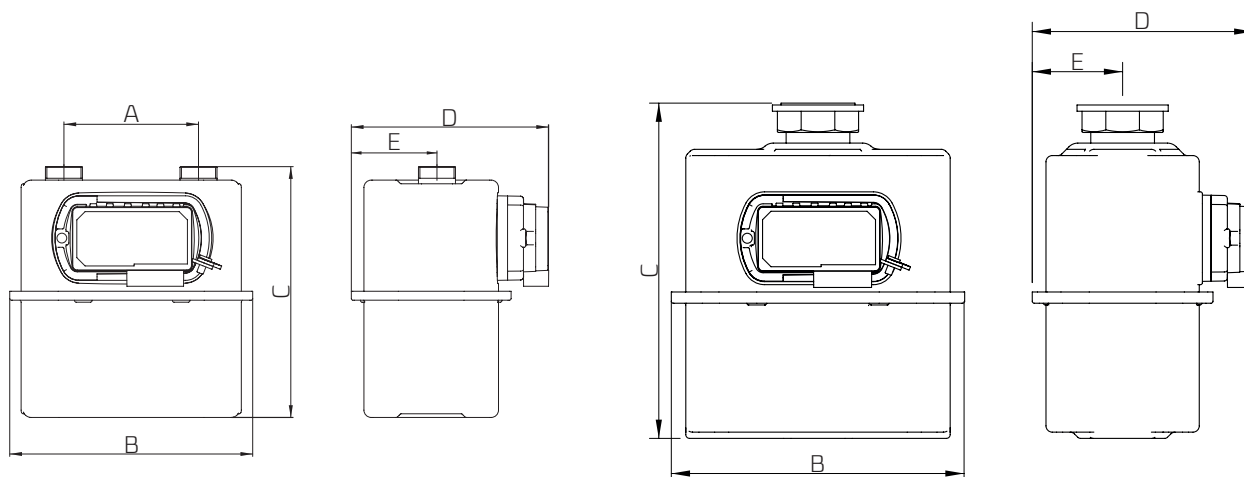
TECHNICAL DATA

| | | UG G4 | 2UG G6 |
|---|--------------------|-----------|-----------|
| Maximum flow rate | m ³ /h | 6 | 10 |
| Minimum flow rate | m ³ /h | 0.040 | 0.060 |
| Nominal flow rate | m ³ /h | 4 | 6 |
| Cyclic volume | dm ³ | 2.2 | 2.2 |
| Max working pressure | bar | 0.5 | 0.5 |
| Index max indication | m ³ /h | 99999.999 | 99999.999 |
| Starting flow rate | dm ³ /h | 5 | 5 |
| Fireproof up to 650 °C according to EN 1359 | bar | 0.1 | 0.1 |

ADDITIONAL INFORMATION ON GAS METERS WITH MECHANICAL TEMPERATURE COMPENSATION

| | UG T |
|---|---------------------|
| Cyclic volume | 1.9 dm ³ |
| Allowable indication errors limits during initial verification: | |
| - Q _{min} to 0.1 Q _{max} | ± 3.5% |
| - 0.1 Q _{max} to Q _{max} | ± 2.0% |
| Temperature range | -25 ÷ 55°C |
| UG T - TC correction range: | |
| - standard | -10 ÷ 40°C |
| - optional | -25 ÷ 40°C |

DIMENSIONS

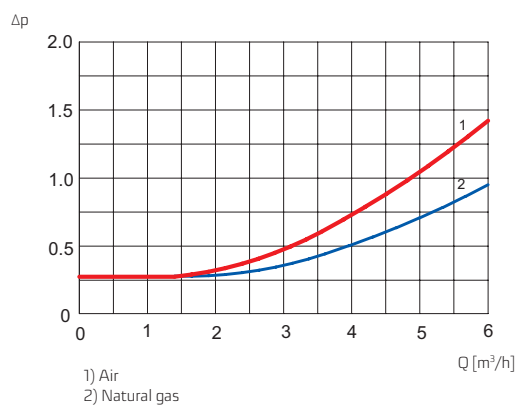
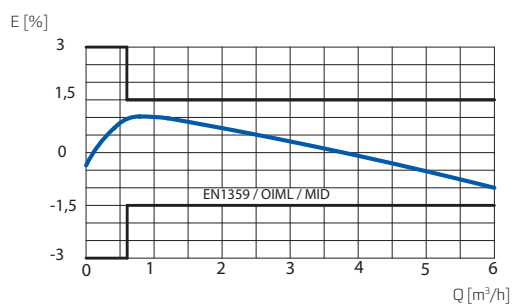


| A [mm] | B [mm] | C [mm] | D [mm] | E [mm] | Weight [kg] |
|--------|------------|------------|------------|------------|-------------|
| | Steel case | Steel case | Steel case | Steel case | |
| 000 | 235 | 270 | 177 | 73 | 3.0 |
| 130 | 235 | 240 | 177 | 73 | 2.9 |
| 152.4 | 235 | 262 | 177 | 73 | 3.1 |
| 160 | 235 | 240 | 177 | 77 | 2.9 |
| 220 | 283 | 222 | 176 | 72 | 3.2 |
| 250 | 325 | 222 | 177 | 73 | 3.2 |

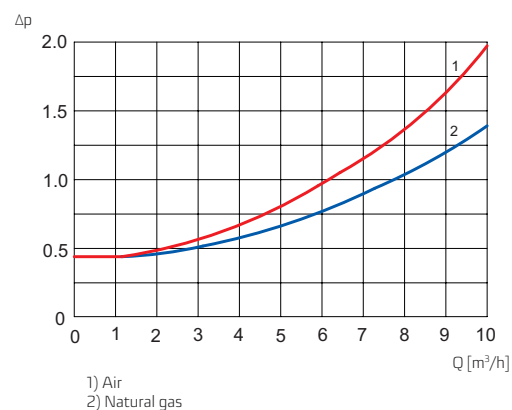
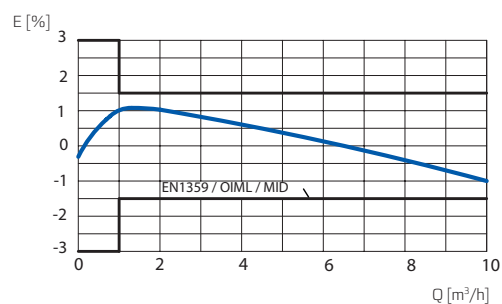
*) Aluminium case

CURVES OF TYPICAL ERROR AND PRESSURE LOSS

UG G4



2UG G6



UG SERIES V=5.6 dm³

UG 5.6 dm³ series gas meters are designed for measurement of gas supplied to commercial consumers where maximum consumption of gas does not exceed 25 m³/h of air density of 1.2 kg/m³.

THE GAS METERS CAN BE USED FOR MEASUREMENT OF:

- Natural gas
- City gas
- Propane-butane gas

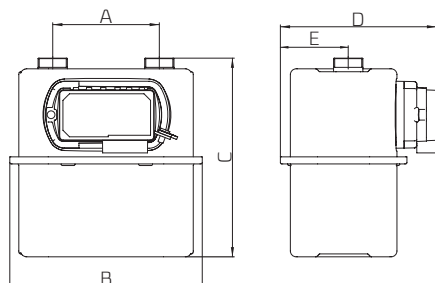
Gas meter is equipped with pulse magnet as standard. Pulse transmitter can be added at any time (1 imp = 0.1 m³).



TECHNICAL DATA

| | | UG G10 | UG G16 |
|---|--------------------|-----------|-----------|
| Maximum flow rate | m ³ /h | 16 | 25 |
| Minimum flow rate | m ³ /h | 0.1 | 0.16 |
| Nominal flow rate | m ³ /h | 10 | 16 |
| Cyclic volume | dm ³ | 5.6 | 5.6 |
| Max working pressure | bar | 0.5 | 0.5 |
| Index max indication | m ³ /h | 999999.99 | 999999.99 |
| Starting flow rate | dm ³ /h | 13 | 13 |
| Fireproof up to 650 °C according to EN 1359 | bar | 0.1 | 0.1 |

DIMENSIONS



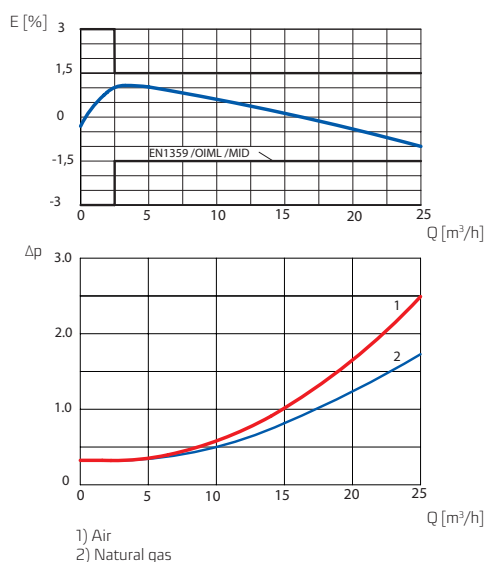
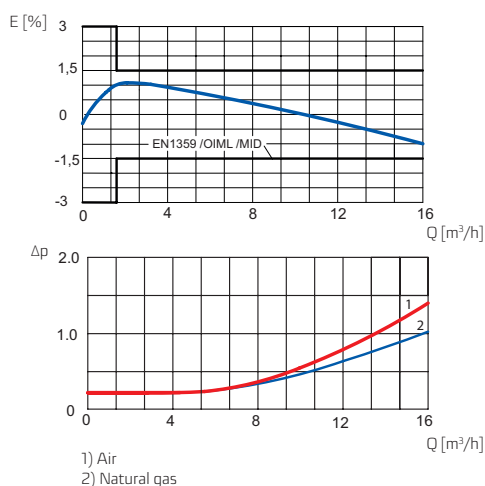
| A [mm] | B [mm] | C [mm] | D [mm] | E [mm] | Weight [kg] |
|--------|--------|------------|--------|--------|-------------|
| 152.4 | 393 | 359 | 214 | 91 | 6.8 |
| 250 | 393 | 353 / 365* | 214 | 91 | 6.6 / 7.4 |
| 280 | 393 | 345 | 214 | 91 | 6.8 |
| 300 | 393 | 345 | 214 | 91 | 6.8 |

*) B5746 connections

CURVES OF TYPICAL ERROR AND PRESSURE LOSS

UG G10

UG G16



UG G25 V=11.2 dm³

UG 11.2 dm³ gas meter is designed for measurement of gas supplied to commercial consumers where maximum consumption of gas does not exceed 40 m³/h of air density of 1.2 kg/m³.

THE GAS METERS CAN BE USED FOR MEASUREMENT OF:

- Natural gas
- City gas
- Propane-butane gas

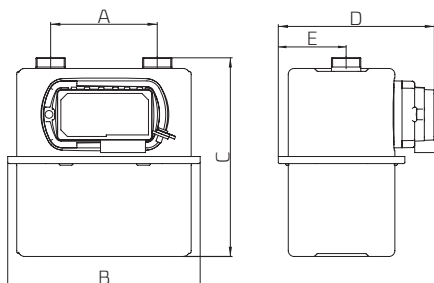
Gas meter is equipped with pulse magnet as standard. Pulse transmitter can be added at any time (1 imp = 0.1 m³).



TECHNICAL DATA

| | | UG G25 |
|---|--------------------|-----------|
| Maximum flow rate | m ³ /h | 40 |
| Minimum flow rate | m ³ /h | 0.25 |
| Nominal flow rate | m ³ /h | 25 |
| Cyclic volume | dm ³ | 11.2 |
| Max working pressure | bar | 0.5 |
| Index max indication | m ³ /h | 999999.99 |
| Starting flow rate | dm ³ /h | 20 |
| Fireproof up to 650 °C according to EN 1359 | bar | 0.1 |

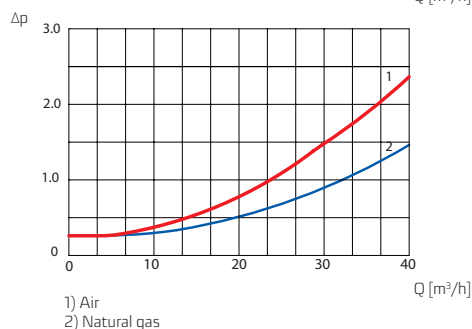
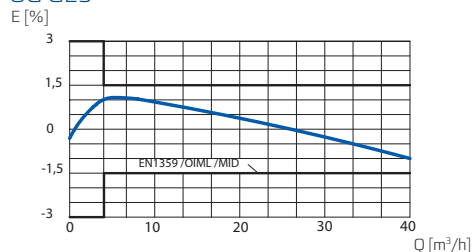
DIMENSIONS



| A [mm] | B [mm] | C [mm] | D [mm] | E [mm] | Weight [kg] |
|--------|--------|--------|--------|--------|-------------|
| 280 | 456 | 380 | 313 | 141 | 12.0 kg |
| 335 | 456 | 361 | 313 | 141 | 11.5 kg |
| 400 | 476 | 460 | 313 | 141 | 14.8 kg |

CURVES OF TYPICAL ERROR AND PRESSURE LOSS

UG G25





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