Domus*next*® 2.0 G1.6 - G6

A comprehensive range of ***smart*** *and* ***integrated*** *gas meters*
small *and* ***easy to install*** *displaying readings*
in ***standard cubic meters,***
no external devices needed for conversion and for communication,
for an ***accurate billing transparent*** *to the end customer.*

Domusnext® G1.6 ÷ G6 meters are available with the following communication technologies:

GPRS
NB-IoT
Mbus 169 MHz
Mbus 868 MHz

Integrated shut-off valve.

MAIN BENEFITS

An innovative static measurement principle

Measurement is intrinsically compensated in temperature and independent from pressure. Measurement is displayed directly in standard cubic-meters.*
The measurement technology is based on a MEMS "Micro Thermal Flow Sensing" principle. Two temperature sensors are symmetrically placed around a micro-heating element: under stopped-flow conditions, both sensors measure the same temperature. As the flow rate increases, heat is carried away from the upstream sensor towards the downstream sensor and the measured temperature difference between the two sensors is proportional to the mass flow rate.

Transparent billing to the end customer

Memory storage of daily or hourly consumption, with frequent communication of data, means customer invoicing can be transparent and timely, referring to the exact billing period, with low operating costs.

Gas recognition

The accuracy of measurement is not affected by changes in the chemical composition of the distributed gases within the 2nd family groups H and L (as defined by EN 437:2003). By measuring specific gas properties, a pre-set auto-calibration process guarantees the required accuracy levels without any additional adjustment.
The meter is also able to operate in air (test phase), by calibrating itself accordingly without any additional adjustment.

Tariff management

Management of 3 tariffs, which can be programmed for weekdays, weekends/public holidays and daylight saving time.

Accuracy of measurement at every temperature and at every pressure

Domus*next*® *meters provide an exact measurement of supplied gas in standard m³, avoiding the use of annual average temperatures and pressures, which inevitably lead to approximate values and errors of estimation. These errors then affect the amount billed.*

Innovation and reliability

Despite being highly innovative, Domusnext® meters have passed the most stringent reliability tests, conducted by notified body and designated laboratories recognised at European level. This certifies the robustness of MeteRSit meters and the accuracy of their measurements, even at high concentrations of dust and contaminants in the gas distribution networks. The high accuracy of the measuring principle ensures the gas meter compliance with the MID (Measuring Instruments Directive). Such micro-thermal measuring principle is also commonly used in laboratory instruments. Resistance to contaminants and dust is ensured by design.

Connectivity

The meter is equipped with an Integrated high performance antenna.
The application software can be remotely updated.

Noise level

Thanks to the static technology adopted, the meter has a very low level of noise and practically no wear . This characteristic is well appreciated in particular for domestic application.

** According to UNI EN ISO 13443 standard*

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Technical data

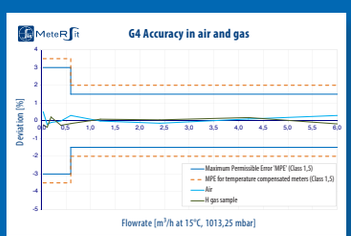
G1.6 - G6

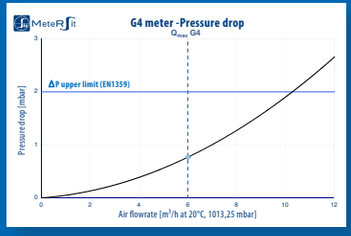
Type Approval	MID T10362 Module B and CE-193 Module D
Measuring range	G1.6 = 0.016 – 2.5 m^3/h; G2.5 = 0.025 – 4.0 m^3/h G4 = 0.04 – 6.0 m^3/h; G4EXTD = 0.016 – 6.0 m^3/h; G6 = 0.06 – 10.0 m^3/h
Standard temperature for volume output	15 °C ; 0°C; 20°C
Operating temperature	-25 °C to 55 °C
Standard pressure for volume output	1013.25 mbar
Gas application	2nd Family Group H or L (EN 437)
Max. operating pressure	500 mbar
Accuracy class	1.5
Measuring Accuracy Q_{min} Q_t	± 3.0 %
Measuring Accuracy Q_t Q_{max}	± 1.5 %
Max. Pressure drop	<2 mbar at Q_{max}
Nr. of tariffs	3
Depth of consumption registers @ 1 day rate	72 days
Depth of consumption registers @ 1 hour rate	72 days
Nominal Diameter DN	G 1" 1/4 - ISO 228/1
Inlet & Outlet Distance	110 mm; 130 mm
Resistance to water, dust and impact	IP 66, IK 08
ATEX	zone 2 Ex II 3 G Ex nA IIA T6 Gc
Display	2 lines multi-segment display, Upper line 7 characters Lower line 9 digits Automotive range –30°C to +85°C
Optical port	EN 62056-21
Valve	Compliancy with EN 16314
Maximum leakage for the valve	120 cc/h at Pin = 500 mbar
Battery supply	2 x 3.6 V lithium cell
Communication Protocol	DLMS/Cosem AES 128-bit encrypted communication

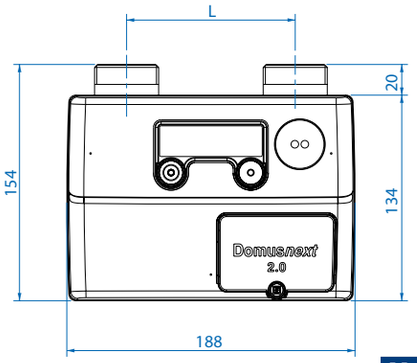
G1.6 GPRS/NB-IoT/MBUS

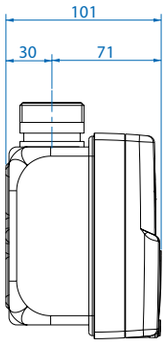
G4 GPRS/NB-IoT/MBUS

G6 GPRS/NB-IoT/MBUS









Model	ØD	L	Weight
G1.6 ÷ G4	G 1" 1/4 (ISO 228/1)	110	1,9 kg
G4 EXTD ÷ G6	G 1" 1/4 (ISO 228/1)	110	1,9 kg

All information is subject to change without notice

MeteRSit