

Domusnext[®] 2.0 MMU6

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.



MAIN BENEFITS

The MMU6 meters are
available with the following
communication technologies:

ZigBee 868 MHz and
2.4 GHz (Dual Band)

Integrated shut-off valve,
remotely controllable for end-customer
contract management and prepayment.

■ 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 half-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, L and E (as defined by EN 437:2003) including mixtures with H₂ concentration up to 23%. By measuring specific gas properties, a pre-set correction process for deviation in the gas composition 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 4 tariffs or block tariffs, which can be programmed for weekdays, weekends/public holidays and daylight saving time.

■ Prepayment

Meter can work either in Credit or in Prepayment mode.

■ Accuracy of measurement at every temperature and at every pressure

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

■ 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



www.metersit.com

Main Office

Via Felice Casati 44
20124 Milano, Italy
T +39 02 67841211
email: info@metersit.com

UK Office

MeterSit UK Ltd.
Regus Digital World, 1
Lowry Plaza, The Quays
Salford, M50 3UB

Registered Office

Viale dell'Industria 31-33
35129 Padova, Italy
T +39 049 8293111

Production Plants

Rovigo, Italy
Brasov, Romania
Tunisi, Tunisia

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Technical data



MMU6 Dual Band

Type Approval

Measuring range

Standard temperature for volume output

Standard pressure for volume output

Operating temperature

Gas application

Max. operating pressure

Accuracy class

Measuring Accuracy Q_{min} - Q_t

Measuring Accuracy Q_t - Q_{max}

Max. Pressure drop

Welmecc SW Guideline extensions

Nr. of tariffs registers

Nr. of block tariffs

Depth of consumption registers @ 1 month rate

Depth of consumption registers @ 1 week rate

Depth of consumption registers @ 1 day rate

Depth of consumption registers @ 1/2 hour rate

Nominal Diameter DN

Inlet & Outlet Distance

Width x Height x Depth

Weight

Resistance to water, dust and impact

ATEX

Display

Valve

Maximum leakage for the valve

Battery supply

Supported HAN bands

Communication protocol

Measuring Instruments Regulations (T10362-UK)

OIML R137-1 (2012)

0.04 – 6.0 m³/h

12.2 °C

1026.13 mbar

-25 °C to 55 °C

2nd Family Group H, L, E (EN 437) including mixtures with up to 23% H₂

500 mbar

1.5

± 3.0 %

± 1.5 %

<2 mbar at Q_{max}

Extensions L, T, S, I2

4

4

13 months

5 weeks

8 days

13 months

1" - BS746

6 inches (152.4 mm)

230.4 mm x 163 mm x 101 mm

2.2 kg

IP67, IK 08

Ex II 3G Ex nA IIB T6 Gc

Multi-segment display:

Upper line 7 characters and 7 specific icons,

Lower line 9 digits

Compliant with EN 16314

120 cc/h at Pin = 500 mbar

2 x 3.6 V lithium cell (TLC)

2.4 GHz and 868 MHz (Dual Band device)

ZigBee SEP 1.4

MMU6 Dual Band

