

(1) **EU-Type-Examination Certificate**

(2) Equipment and protective systems intended for use in potentially explosive atmospheres, **Directive 2014/34/EU**



(3) **Certificate Number** TÜV CY 21 ATEX 0206533 X Issue 01

(4) for the equipment: Gas Meter Domusnext® Step 2.0 C&I NB-IoT  
Type: G10 – G16 – G25 – MMU16 – MMU25 – MMU40

(5) of the manufacturer: **MeteRSit S.r.l.**

(6) Address: Viale Dell'Industria n. 31, 35129 Padova (Italy)

Order number: 0206533

Date of issue: 2022-11-18

(7) The design of this equipment or protective system and any acceptable variation thereto are specified in the schedule to this EU-Type-Examination Certificate and the documents therein referred to.

(8) TÜV CYPRUS Ltd, notified body No. 2261 in accordance with Article 17 of the Council Directive of 2014/34/EU of February 26, 2014, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive. The examination and test results are recorded in the confidential report No. 22 0206533.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN IEC 60079-0:2018                      EN 60079-11:2012                      EN 60079-18:2015/A1:2017**  
**EN 60079-26:2015**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EU-Type-Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment which are not covered by this certificate.

(12) The marking of the equipment or protective system must include the following:

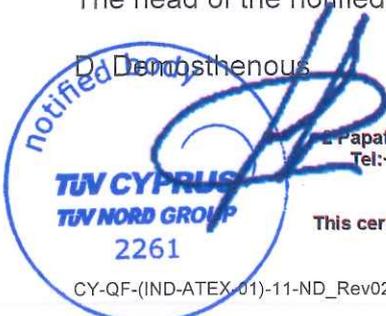
 **II 1/2(1) G Ex ia / ib mb [ia Ga] IIB T4 Ga/Gb**

TÜV CYPRUS Ltd (TUV NORD Group),

The head of the notified body,

D. Demosthenous

Accredited by CYS-CYSAB  
Certificate No. C 004-2



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**This certificate may only be reproduced without any change, schedule included. Excerpts or changes shall be allowed by the TÜV CYPRUS Ltd**

(13) **SCHEDULE**

(14) **EU-Type-Examination Certificate No. TÜV CY 21 ATEX 0206533 X Issue 01**

(15) Description of equipment

The Gas Meter *DomusNext* Step 2.0 C&I NB-IoT Type G10, G16, G25, MMU16, MMU25, MMU40 is a solid state metrological instrument based on a Micro Electro Mechanical Sensor (MEMS) that computes gas flow.

It is capable of Wireless Communication via NB-IoT (Narrowband Internet of Things) and TCP/IP technology.

The main components of the meter are:

- a metallic gas chamber that includes the integrated flow sensor and a plastic muffler (EPL Ga)
- a plastic enclosure mounted on the front part of the gas chamber that contains the electronic board, the LCD display and the batteries (EPL Gb)

The system is powered by a size D main primary battery pack and a size D back-up primary battery pack both based on IEC 60086-1 Type E Lithium-Thionyl Chloride chemistry. Only the main battery pack is replaceable whereas the back-up battery pack is not accessible by the user.

Separation between EPL Ga (Gas sensor) and EPL Gb (Gas meter) areas is obtained by a partition wall made of a corrosion resistant metal and a bushing for electrical connection.

Gas sensor and its connection to the Gas meter are not accessible and removable by the end user.

The current Issue 01 includes the introduction of an alternative electronic component, whose introduction has no influence on the safety concepts, of new materials for the equipment enclosure and a new design of the Gas Meter Pulse I/O connector.

Type key:

Product Type	Type	Product Code	Measuring Range
G10	x4852xx	04852	0,10 – 16 m <sup>3</sup> /h
G16	x4853xx	04853	0,16 – 25 m <sup>3</sup> /h
G25	x4854xx	04854	0,25 – 40 m <sup>3</sup> /h
MMU16	x4852xx	04852	0,10 – 16 m <sup>3</sup> /h
MMU25	x4853xx	04853	0,16 – 25 m <sup>3</sup> /h
MMU40	x4854xx	04854	0,25 – 40 m <sup>3</sup> /h

Technical data:

Permissible range of ambient temperature: -25 °C to +55 °C.

Electrical parameter:

Power Supply – Battery Powered

Gas Meter Power Supply

Connector J6 or J6A (polarized)

Input / Output

Gas Meter Pulse I/O (optional)

Female connector DIN 6 poles

Rated Voltage  $U_{max}$ : 3,9V DC

$U_i$ : 3,9 V DC

$U_i$  = 30V

$I_i$  = 100mA

$P_i$  = 333mW

$C_i$  negligible

$L_i$  negligible

Warnings:

WARNING – Potential Electrostatic Charging Hazard – See Instructions

WARNING - Use only replaceable battery pack MeterRSit Kit cod. 2219013, 2219014, 2219019 or 2219020 (refer to the marking inside the replaceable battery compartment and in the instruction manual)

(16) Test documents are listed in the test report No. 22 0206533

(17) Special conditions for safe use:

1. See safety instruction manual for guidance for the user to minimize the risk from electrostatic discharge.
2. See safety instruction manual for battery pack replacement and Gas Meter Electrical I/O Pulse Interface connection
3. For connection of the Gas Meter Pulse I/O see Instruction Manual of MeterRSit Kit cod. 0955025

(18) Essential Health and Safety Requirements

This certificate covers only the Essential Health and Safety Requirements related to the Directive 2014/34/EU and assured by the conformity with harmonized standards listed under item 9.