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GTC WLPGA **GLOBAL TECHNOLOGY CONFERENCE**

ULTRASONIC GAS METER WITH 4G GSM GENERATION

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A **Smart Choice** For **Smart Meters**

The UGM-G4 Smart Meter Gas is designed and manufactured to measure the volume of **Natural Gas** and **Liquefied Petroleum Gas (LPG)**.
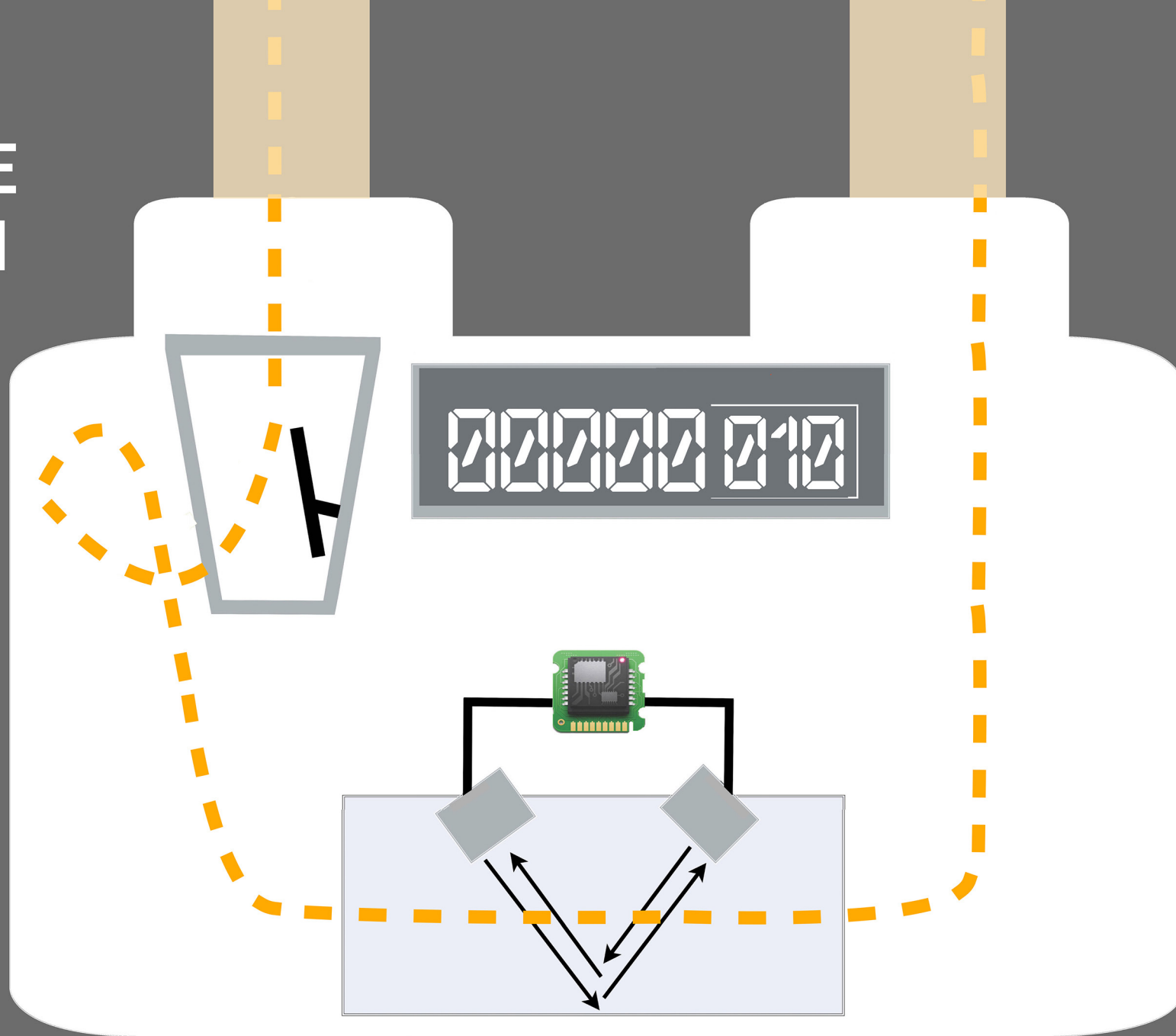
Measurement technology is based on an innovative **ultrasonic** sensor which integrates temperature sensor for volume conversion that permits to obtain an high precision and performance.

The gas meters satisfy the new generation of smart devices to fulfill all requirements of European and International **standard MID-OIML**.
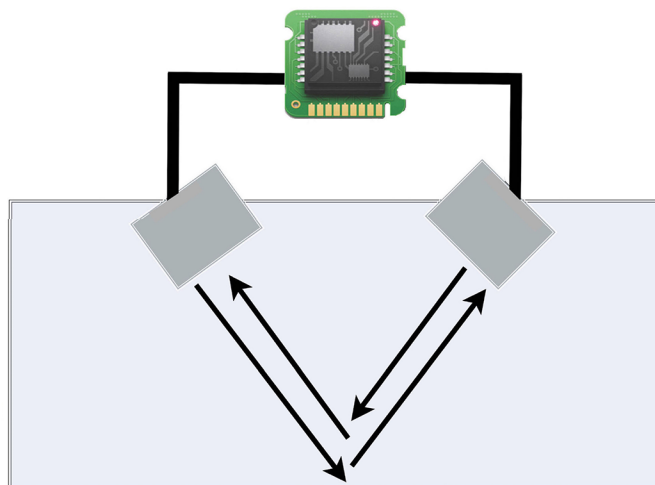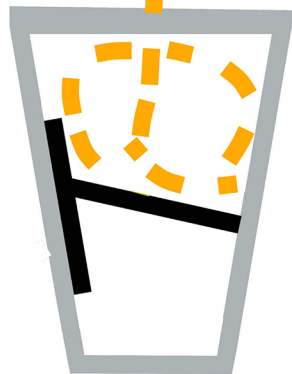
KEY ADVANTAGES/BENEFITS:

1 Ultrasonic flow sensor

2 Indoor and outdoor installation

3 Integrated temperature sensor

4 Integrated earthquake sensor

5 Low losses/flow measurement

6 Customizable applications

7 High corrosion-resistance

8 Integrated shut off valve

VALVE OPEN

GAS

00000 010

VALVE CLOSE

NO GAS

00000 001

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Potential
Impact

• Automatic Meter Reading by GSM integrated communication module that prevent local and manual reading.

• High measure performance by Ultrasonic Sensor to measure also the low customer consumption.

• Valve Remote Control for fraud prevent and remote closing.

• Real time measure with temperature compensation for righ measure in any condition.

UGM 3:1 Gas Meter Class

The UGM is different from standard Gas Meter for it's large Q-range performance. *It's 3:1 GAS METER CLASS, G1,6, G2,5 and G4 in one model*. The Ultrasonic measure principle guarantee a high level accuracy performance for any type of gas group family and the measure it's not influenced from gas composition.
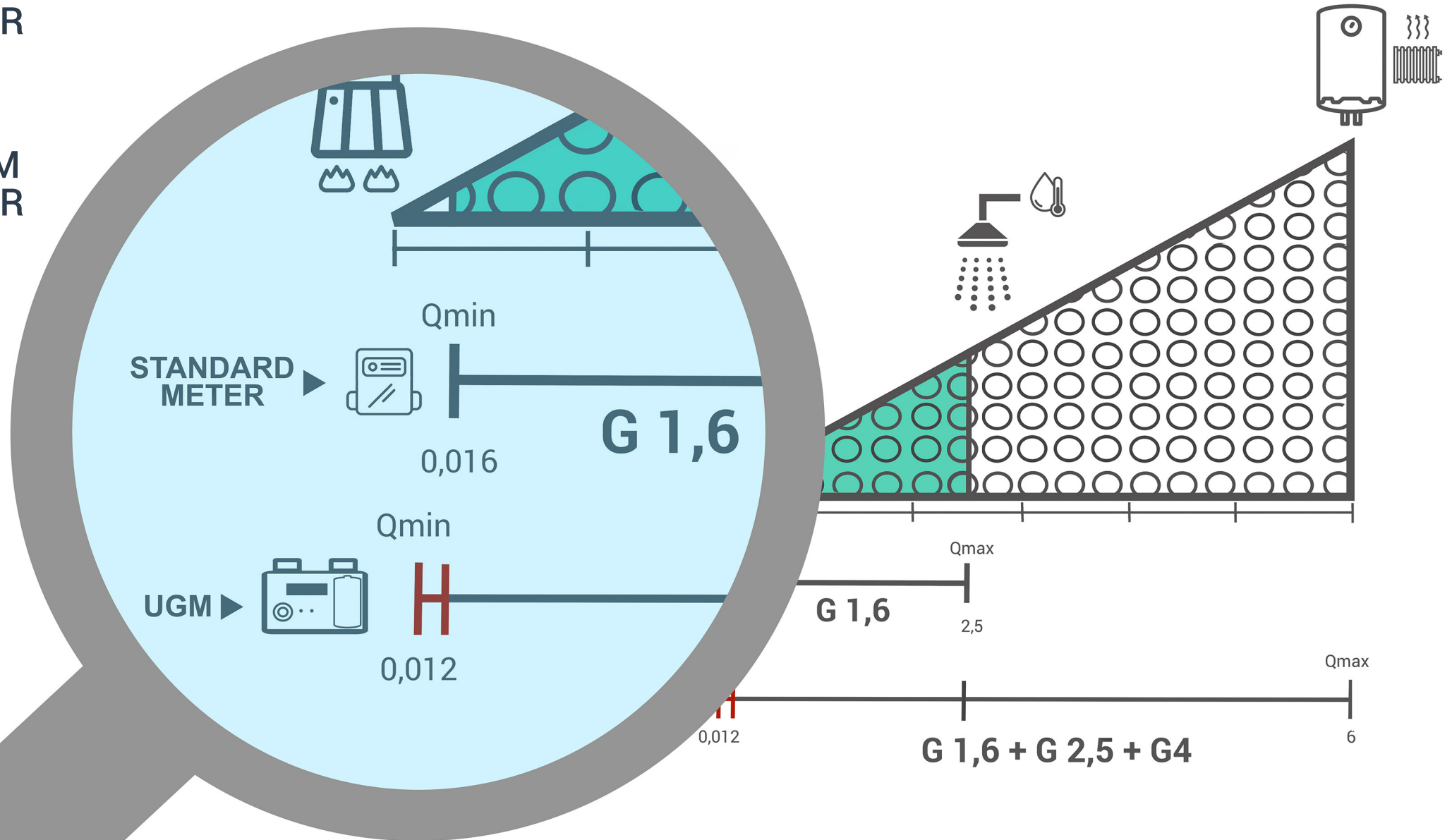
Compared to "old" technology for industrial and domestic measurement, the new generation of Ultrasonic Smart meter is a static system so without mechanical parts in movement, without noise and without usure parts. These main features guarantee long life time and long accuracy but also a good feel from end user because the meter do not made noise in the ambient. It's very appreciated in case of installation inside the home.

In additional the "old" mechanical meter has an initial friction that can not permit low flow measure consumptions, therefore the customer with low consumption such little burner or pilot flame (i.e.: for coffee-maker of boiler pilot flame) can not measure. The UGM reach also low consumption measure in any conditions.

STANDARD
GAS METER
CLASS
VS
3 IN 1: UGM
GAS METER
CLASS

Qmin

**STANDARD
METER** ▶

G 1,6

0,016

Qmin

UGM ▶

0,012

Qmax

G 1,6

2,5

0,012

Qmax

G 1,6 + G 2,5 + G4

6

Why Invest in UGM Ultrasonic Gas Meter?

The UGM is a Smart Meter to the remote reading of customers consumption.The device periodically transmits the data in cubic meters of the customer and allows a real billing. Equipped with a valve can be closed as needed. The **Ultrasonic Gas Meter** is a fully electronic Gas Meter, static measurement, with high accuracy measure and large Q-range performance.

UGM offer a lot of ADVANTAGE and SKILLS:

More accurate billing based on effective consumption

Daily communication to the server for data referring (losses, tampering, malfunctions, reading)
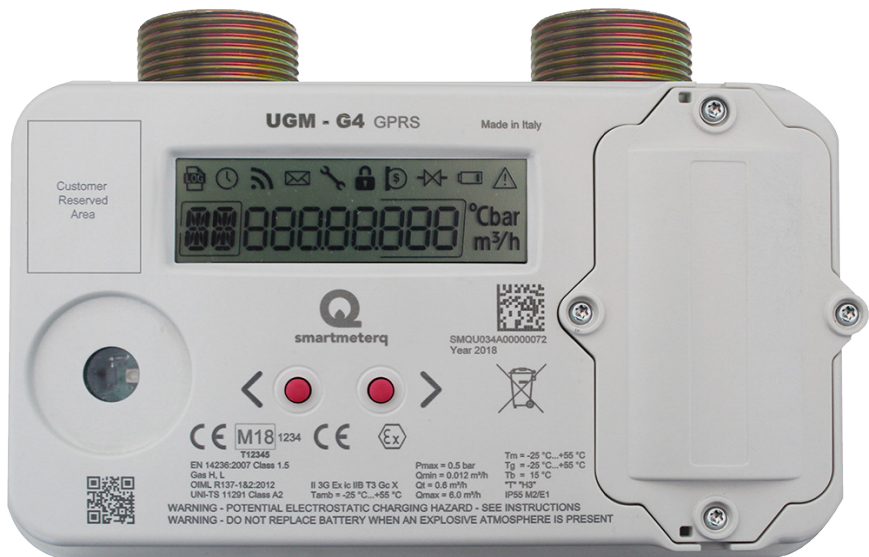
Remote supply lock

Prepay service

UGM Transmissions Technology

The Smart Meter are connect to the cloud service by several transmissions technology:

))) **(2G, 3G, 4G - NB-IoT, LTE CAT M)**

))) **(WMBus, LoRa WAN)**

))) **Communication protocol DLMS COSEM**

))) **Special custom on request (NFC, ZigBee and Sigfox, LPWAN)**

UGM Hardware Design

The UGM Hardware design is made for hard environment conditions and the high level of performance permit the installation in every conditions. Also the Electronic components are designed to guarantee long life time also in hard level of electrical disturbance.

UGM Line Card

The line card offer domestic and industrial meter: **G4-G6**

EU type examination certificate n° I-2142-MI002-TG009 Rev. 0

Compliance and Reference:

Compliance to:	Reference standards:
MID 2014/32/EU	Directive EMC 2014/30/EU
OIML R137 1&2	EN 61000-4-2
EN 14236	EN 61000-4-3
UNI/TS 11291	
EN 13757	Directive RED 2014/53/EU
EN 12405	EN 301 489-1
EN 62056-21	EN 301 489-3
EN 16314	EN 301 489-7
	EN 301 511
	Directive ATEX 2014/34/EU
	EN 60079-0:2012
	EN 60079-11:2012

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