GAS

GC-25AU

Class 1.5

Commercial Ultrasonic Smart Gas Meter

The GC-25AU is a G16 smart ultrasonic gas meter designed for natural gas with up to 23% hydrogen. It supports NB-IoT/Cat M1 communication technology and provides 10+ years battery life. The meter is compact in size for easy installation and is built with sturdy material that has good environmental resistance and durability.

I **Key Features**

H_2	NB-IoT	LTE-M	IP67	AMI		
HYDROGEN READY	NB-IoT	LTE-M	SUPERIOR INGRESS PROTECTION	AMI READY	HIGH ACCURACY	FIRMWARE OVER THE AIR

GC-25AU

Class 1.5

Commercial Ultrasonic Smart Gas Meter

269mm (W)

187.1mm (H)

165.6mm (D)

Weight: 4.5kg

Standards and Compliance

- Class 1.5
- Directive 2014/32/EU (MID)
- OIML R 137-1&2
- ATEX - Directive 2014/34/EU (Zone 1)
- Directive 2014/30/EU (EMC)
- Directive 2014/53/EU (RED)
- RoHS
- CE

Gas Supply

- Natural Gas H, L and E
- Hydrogen mixes up to 23%*
- Meter capacity: 25m³/h

Input Measurement

- Single bounce speed of sound time measurement

Battery

- 3.6V Lithium battery with integrated HLC
- High capacity providing 10+ years battery life

Real-time Clock

- Accurate to within <0.2 second/day of the UTC date and time under normal operating condition

Calendar

- RTC synchronization

Display

- Large 16 x 2-character display
- Display digit size: 5.3 x 3.3mm
- Multiple screens of meter parameter
- Backlight (optional)

Materials

- Metal chassis: Powder coated aluminium
- Smart index: Polycarbonate (flammability rating of V-0 according to EN 60695-11-10) and superior UV resistant material for (H3) outdoor environments (optional)
- Ultrasonic unit: Polybutylene terephthalate flow path, sensor and PCB

Connections

- Connections: 1 $\frac{1}{4}$" bosses (30 Lt.) 8 $\frac{1}{4}$" centres (209mm)
- Test point (optional)

Data Delivery

- 30-minute load surveys
- Daily cumulative midnight totals
- Configurable data delivery time

Tamper Detection and Alarms

- Battery cover removal
- Reverse flow with configurable threshold

- Overcapacity with configurable threshold
- Low battery alarm

Communications

- Communication module with LTE-M1 and NB-IoT* capabilities
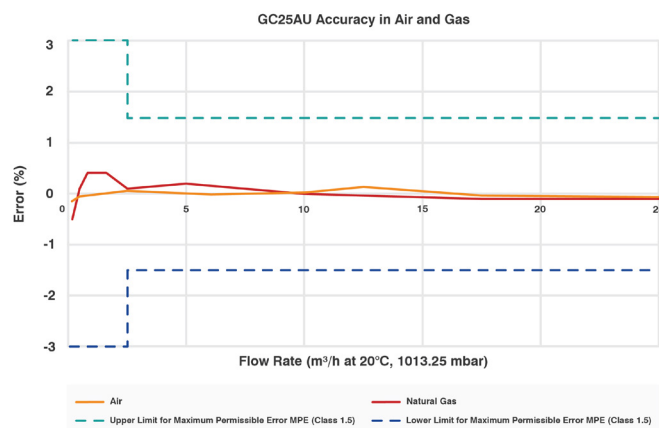- Global frequency bands support
- Optical port: Flag (IEC 62056-21)

Protocol

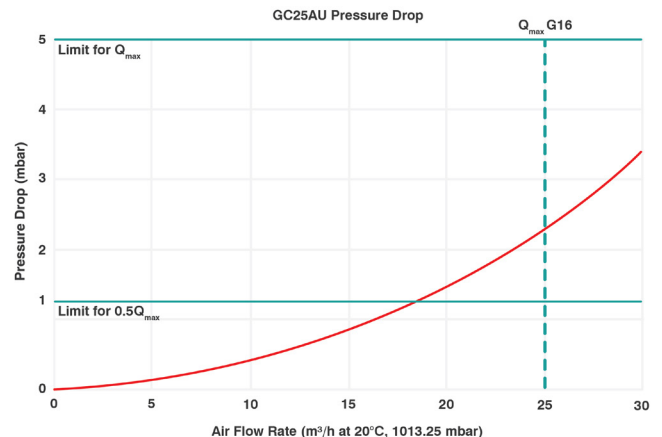- DLMS/COSEM
- AES 128-bit encryption

Environmental

- Specified operating range: -10˚C to +55˚C
- Storage range limit: -20˚C to +60˚C
- Relative humidity: Up to 75% mean, 95%, non-condensing for 30 days
- Ingress protection: IP67
- Corrosion resistance: Tested against ISO 9227:2012 for 1000h

Measurement

GC25AU Accuracy in Air and Gas

Error (%) vs Flow Rate (m³/h at 20℃, 1013.25 mbar)

- Air
- Natural Gas
- Upper Limit for Maximum Permissible Error MPE (Class 1.5)
- Lower Limit for Maximum Permissible Error MPE (Class 1.5)

Pressure

GC25AU Pressure Drop

Pressure Drop (mbar) vs Air Flow Rate (m³/h at 20℃, 1013.25 mbar)

Limit for Q_{max}
Limit for $0.5Q_{max}$
Q_{max} G16

*Pending future development and demand

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