

Friendcom Radon

Ultrasonic Gas Meter



Highlights Of Ultrasonic Gas Meter

- High stability & accuracy for long term measurement
- Battery lifetime ≥ 20 years
- Separate power supply circuits for metering & communication
- Supported communication protocol: LoRaWAN, WMBus and NB-IoT
- Temperature & pressure sensor for temperature and pressure compensation

Basic Features

- High accuracy better than Class 1.5
- High metrological sensitivity
- Full electronic without moving parts
- IP65
- Ultra-low power consumption
- Safety mechanism
- Maintenance free
- High degree of intelligence

Optional

- Seismic sensor for earthquake detection & automatic gas shut-off
- NFC supported
- SMA external antenna interface

Core Advantages

• Excellent Gas Adaptability

The core algorithm supports diverse gas compositions in different environments (up to 53% hydrogen blending), ensuring high-precision metering under complex conditions.

• High Reliability of Key Components

The self-developed transducer has high reliability and consistency, ensuring stable measurements throughout the product's lifecycle.

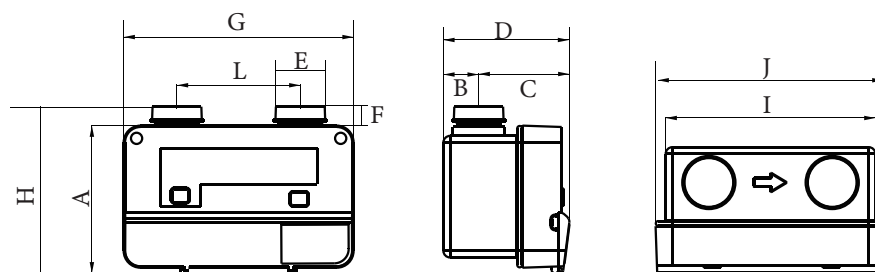
• Adaptive Working Mode

The working modes can flexibly switch between high accuracy and low power consumption to meet different application scenarios. Intelligent algorithms dynamically adjust measurement frequency, extending battery life without compromising measurement accuracy.

• Modular Communication Design

The data communication system adopts a modular architecture. It supports swappable installation of various mainstream communication modules. This design enables cost-efficient maintenance. Currently supported protocols include: LoRaWAN, WM-Bus, NB-IoT, NFC and Bluetooth .

Dimensions



Dimensions(mm)										
L	A	B	C	D	E	F	G	H	I	J
110	132	31.5	80.8	112.3	G1-1/4	16	205	147.6	187	204.6
152.4	132	31.5	80.8	112.3	G7/8	20.7	205	152.4	217	234.6
160	132	31.5	80.8	112.3	G7/8	20.7	205	152.4	217	234.6

Technical Specifications

Model	G1.6	G2.5 (plus)	G4 (plus)	G6 (plus)
Qmax (m³/h)	2.5	4	6	10
Qmin (m³/h)	0.016	0.025 (0.016)	0.04 (0.016)	0.06 (0.016)
Qt (m³/h)	0.25	0.4 (0.25)	0.6 (0.25)	1.0 (0.25)
Qr (m³/h)	3	4.8	7.2	12
Qs (dm³/h)	3	≤4 (≤3)	≤5 (≤3)	≤8 (≤3)
Accuracy Class	Better than Class 1.5			
MPE	$Q_{min} \leq q < Q_t, MPE \leq 3\%$ $Q_t \leq q \leq Q_{max}, MPE \leq 1.5\%$			
Temperature & Pressure Compensation	Support			
Operation Temperature Range	-25 °C ~ 55 °C			
Battery	1 battery 3,6V DC 19 Ah lithium for metrology circuit 1 battery 3,6V DC 19 Ah lithium for communication circuit			
ATEX	ATEX Zone 2-II 3G Ex ic IIA T3 Gc			
Standards	EN 14236-2018 / EN 13757 / UNI 11291 / DLMS protocol			

