



# GR-8BU

Class 1.5

Residential Ultrasonic Smart Gas Meter

The GR-8BU is a G4 sized residential Smart Gas Meter using ultrasonic flow measurement technology. It supports multiple communication options and enables 10-year battery life with remote shut-off valve functionality. GR-8BU also operates using secure DLMS protocol.



## Key Features

-  DISCONNECT VALVE
-  IP67 SUPERIOR INGRESS PROTECTION
-  LOW POWER CONSUMPTION
-  ANTI TAMPER
-  HIGH ACCURACY

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## Residential Ultrasonic Smart Gas Meter



### Standards and Compliance

- Class 1.5
- EN 14236:2018 (MID)
- OIML R 137-1&2: 2012
- ATEX - Directive 94/9 EU (Zone 1)
- IECEx (Cat 2)
- RCM
- RoHS
- CE

### Measurement

- Measurement accuracy - Air:  
0.04m<sup>3</sup>/h to 0.6m<sup>3</sup>/h < ±3%  
0.6m<sup>3</sup>/h to 8m<sup>3</sup>/h ≤ ±1.5%

### Pressure

- Pressure loss less than 200Pa @ 8m<sup>3</sup>/h Air, 10m<sup>3</sup>/h Gas (including valve)
- Operating Pressure 30kPa

### Gas Supply

- Natural Gas H, L and E
- Meter capacity: 8m<sup>3</sup>/h Air, 10m<sup>3</sup>/h Gas

### Input Measurement

- Single bounce speed of sound time measurement

### Disconnect Valve

- Fast closing valve
- Gas seal compliant EN549:1994
- Local/remote operation\*

### Battery

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

### Real-time Clock

- Clock accuracy (internal) 25 seconds per month at 23°C

### Calendar

- RTC synchronization

### Display

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

### Materials

- Metal chassis: Powder coated SuperDyma™ special hot dip galvanized steel
- Smart index: Polycarbonate
- Ultrasonic unit: Polybutylene terephthalate flow path, sensor and PCB

### Connections

- Connections: 1" BS746:2014 centres
- Test point

### Data Delivery

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

### Tamper Detection and Alarms

- Battery cover removal
- Reverse flow
- Overcapacity with configurable threshold
- Low battery capacity

### Security

- DLMS Security Suite 0; AES 128-bit encryption

### Communications

- Multiple communication modules available
- Global frequency bands support
- Optical port: Flag (IEC 62056-21)

\* for future release

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