



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 LTE-M communication technology and enables 10-year battery life with remote shut-off valve functionality. GR-8BU also operates using secure DLMS protocol.



Key Features



LTE-M



DISCONNECT VALVE

IP67

SUPERIOR INGRESS PROTECTION



LOW POWER CONSUMPTION



ANTI TAMPER



HIGH ACCURACY

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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:
0.04m³/h to 0.6m³/h <±3%
0.6m³/h to 8m³/h ≤±1.5%

Pressure

- Pressure loss less than 200Pa @ 8m³/h Air, 10m³/h Gas (including valve)
- Operating Pressure 30kPa

Gas Supply

- Natural Gas H, L and E
- Meter capacity: 8m³/h Air, 10m³/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

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

Protocol

- DLMS/COSEM

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
- UV stability: Tested against ISO 4892-3:2016 for 66 days

* for future release

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