



GR-6BU

Class 1.5

Residential Ultrasonic Smart Gas Meter

The GR-6BU is a G4 sized residential Smart Gas Meter that supports NB-IoT communication. It comes with 10+ years battery life, remote shut-off valve functionality and also integrates with the temperature sensor for volume conversion for high precision performance. The meter is compact in size for easy installation and is built with sturdy material that has good environmental resistance and durability.



Key Features



NB-IoT



DISCONNECT VALVE

IP67

SUPERIOR INGRESS PROTECTION



LOW POWER CONSUMPTION



ANTI TAMPER



HIGH ACCURACY



UPGRADEABLE



LARGE DATA STORAGE

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Weight: 2.2kg

Standards and Compliance

- Class 1.5
- Directive 2014/32/EU (MID)
- EN 14236:2018 Ultrasonic domestic gas meters
- ATEX - Directive 2014/34/EU (Zone 2)
- Directive 2014/30/EU (EMC)
- Directive 2014/53/EU (RED)
- RoHS
- CE

Measurement

- Measurement accuracy:
 - 0.04m³/h to 0.6m³/h $\leq \pm 3\%$
 - 0.6m³/h to 6m³/h $\leq \pm 1.5\%$
- Temperature compensation (optional)

Pressure

- Pressure loss: Less than 200Pa
- Operating pressure: 0.5bar

Gas Supply

- Natural Gas H, L and E
- Meter capacity: 6m³/h

Disconnect Valve

- Screw valve
- Gas seal compliant EN 549
- Local/remote operation
- DC-powered motor with <math>< 0.04</math> l/h leak rate

Battery

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

Real-time Clock

- Accurate to within <math>< 0.2</math> 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: Hot-dip galvanized steel
- 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: 2 pipe connections - Different connection threads based on ISO 228-1 and BS 746 standards, as per customer request
- Distance between connections: 110mm, 130mm, 152.4mm, 160mm and 250mm

Load Survey/Profile

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

Data Memory

- 2MB of non-volatile memory

Tamper Detection and Alarms

- Communications and battery cover tamper evident seals
- Battery cover removal
- Low battery capacity
- Reverse flow
- Overcapacity with configurable threshold
- Alarms programmable to display LCD status and communications event

Communications

- Communication module with NB-IoT capability and global frequency support
- Optical port: FLAG (EN 62056-21)

Protocol

- DLMS/COSEM
- AES 128-bit encryption

Environmental

- Specified operating range:
 - 25°C to +55°C
- Storage range limit:
 - 25°C to +60°C
- Relative humidity: 95%
- Ingress protection: IP67
- Corrosion resistance: 500h salt spray test compliant
- Resistant to high temperature (650°C) according to EN 14236

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