**GAS**

# GR-6BU

## Class 1.5

## Residential Ultrasonic Smart Gas Meter

The GR-6BU is a G4 sized residential Smart Gas Meter that supports multiple communication options. 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

**DISCONNECT VALVE**

**IP67** SUPERIOR INGRESS PROTECTION

**LOW POWER CONSUMPTION**

**ANTI TAMPER**

**HIGH ACCURACY**

# GR-6BU

Class 1.5

## Residential Ultrasonic Smart Gas Meter



**235.4mm (W)**

**162mm (H)**

**85.8mm (D)**

Weight: 2.2kg

## Standards and Compliance

- Class 1.5
- EN 14236:2018 (MID)
- OIML R 137-1&2: 2012 (optional)
- 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 6m³/h ≤ ±1.5%

## Pressure

- Pressure loss less than 200Pa @ 6m³/h Air, 8m³/h Gas (including valve)
- Operating Pressure 20kPa

## Gas Supply

- Natural Gas H, L and E
- Meter capacity: 6m³/h Air, 8m³/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
- Leak detection during commissioning
- Selectable alarms and tamper reducing power consumption

## Security

- DLMS Security Suite 0; AES 128-bit encryption

## Communications

- Multiple communication modules available
- 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

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