



G6000

Smart Ultrasonic Gas Meter



Gas Series

PRODUCT INFORMATION

The G6000 is a compact and precise smart gas meter based on proven ultrasonic measurement technology. The meter has an extended measurement range allowing installation in residential and commercial sites, and is accurate down to -25°C .

The meter supports ZigBee, wireless M-BUS, and standalone GPRS/GSM communications technology. The unit also comes complete with an integrated valve which, along with advanced software/firmware features, allows the unit to be remotely configured for credit and prepayment operation.

The ultrasonic technology also opens up new business models for utilities through the disaggregation of gas readings by gas appliance.



KEY FEATURES

AMI

AMI READY



DISCONNECT
VALVE

P-PAY

PREPAYMENT

SMART

SMART READY



ANTI
TAMPER



UPGRADEABLE



MULTIPLE
COMMS OPTIONS

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SPECIFICATIONS

Measurement and Certification

- Class 1.5 volume measurement via the integrated ultrasonic unit
- Remote Calorific Value, PTZ correction (via HAN)
- Ultrasonic gas meter compliant with EN14236:2007 and OIML R137-1&2:2012
- Smart Meter Certified to MID Annex B
- Smart Meter Certified to Ex ic IIB T4

Gas Supply

- Natural Gas SG 0.64m³ typical
- Meter capacity: 6m³/h at 100Pa pressure loss (including valve)

Input Measurement

- Single bounce speed of sound time measurement

Disconnect Valve

- DC-powered stepping motor
- <0.25dm/h leak rate
- Oil-less construction

Tamper Detect and Alarms

- Metrological seals to gas meter
- Communications and battery cover detection alarm
- Meter tamper detection alarm
- Pre-programmed alarm logged in event log
- Alarms programmable to trigger LCD icon and communications event

Time Clock and Calendar

- Accuracy: <15 sec/month
- Backup time 15 days without main battery
- Supports Daylight Saving Time and Gregorian or Persian calendars

Time of Use

- Up to eight rates plus unified rate
- Up to 32 separate registers
- Daily, weekly, monthly, yearly and special
- Up to 200 special days and eight seasons
- Up to 61 previous billing periods plus billing totals
- Time of maximum demand

Load Survey/Profile

- AMI ready
- Up to 2.0 Megabytes of non-volatile memory
- Over 7200 days (20 years) storage (two-channel 30-minute)
- Up to 32 channels and two independent surveys
- Intervals programmable 1 to 60 minutes
- Volume, energy as channel sources
- Ability to store average/minimum/maximum values for interval duration

Security

- Multi level (username and password including encrypted login)
- Up to seven independent security levels
- Up to six individual users
- AES 128/192/256 encryption. RSA up to 6144 supported and elliptic key up to 1504
- TRNG ANSI X9.31

Prepayment

- Credit or debit operation
- STS token compatibility option (IEC 62055-31)
- Eight rates per source
- External debt repayment
- Minimum charges, standing charges and emergency credit
- Configurable warnings and indicators

Communications

- Optical Port: FLAG or full DLMS COSEM to BS EN 62056
- HAN/FAN: Zigbee SEP1.x, WM-BUS
- WAN: GSM GPRS with SMS
- Other custom options available

Battery

- Main Cell: D Type Lithium (15 years service life – replaceable)
- Backup: Third AA Lithium (internal)

LCD Display

- Large 16 x 2-character display
- Display digit size: 5.3 x 3.3mm
- Multiple screens of any meter parameter
- Customisable and supports multiple language
- Backlight standard

Connections and Physical Dimensions

- Connections: 1"BS 746 couplings 6" centres
- Other centres also available
- 158mm (H) x 234mm (W) x 79.49mm (D)

Materials

- Metal enclosure: steel/polycarbonate/nylon
- Smart index: polycarbonate
- Ultrasonic unit: Polybutylene terephthalate flow path, sensor and PCB

Environmental

- Operating range: -25°C to 55°C
- Storage range: -30°C to 70°C
- Relative humidity: 95%
- Ingress Protection: IP67
- Corrosion: 1000h salt spray compliant

Software

- EDM I Eziview available for meter programming/reading (Windows 7/8/Vista/XP/2000)
- EDM I MultiDrive available for large scale AMI and AMR solutions (Windows 7//8/Vista/XP/2000)
- Supported by iBO and Clariti platforms
- Supported by many popular third party multi-vendor AMR solutions

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