Gallus sV G

Residential Smart Gas Meter

Itron's gas smart meter platform has been built upon the proven design of standardized digital communication interface between the main board and the communication board to ensure safe infrastructure investments through future upgradeability.

KEY BENEFITS

» Future proof modular concept

» Plug 'n' Play Installation; No special infrastructure needed

» Field swappable battery

» Remote firmware upgrade

» Based on GPRS communication

» Easy operation and maintenance through advanced 2 push button human machine interface.

METER DESCRIPTION

The meter consists of a gas containing steel case, enclosing a diaphragm measuring unit and a high precision shut off valve. The measuring unit is the latest version and field proven for many years and in many different environments.

The shut off valve is designed to reduce the time and energy involved in operation in a way that the effect on battery life is minimized. It consists of an integrated high tech electronic and a mechanical unit.

The mechanical unit is connected to the external electronics unit through the steel case, whilst still enabling the meter to meet the high ambient temperature requirement.
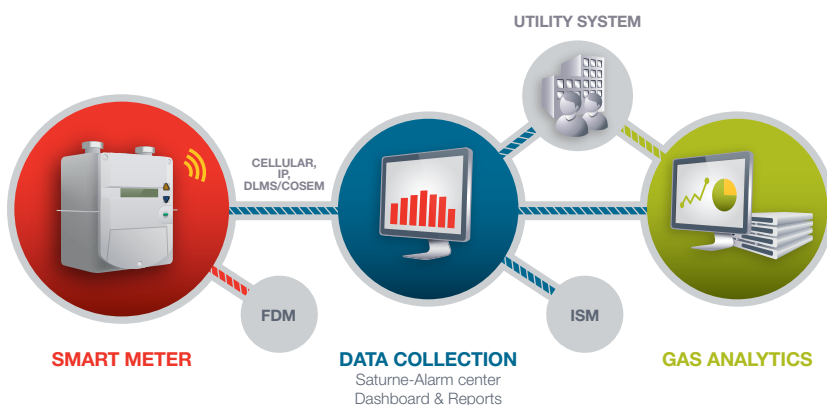
The electronic unit includes interchangeable batteries and communication modules located under a sealed cover. It uses a proven optical detection mechanism in order to provide accurate, low power and bi-directional functionality for measurement of gas

STANDARDS & COMPLIANCE

The meter is compliant with the following standards and norms:

» MID approved

» ISO 9001 certified

» ATEX approved

» R&TTE approved

» DLMS/COSEM certified

SOLUTION ARCHITECTURE

UTILITY SYSTEM

CELLULAR, IP, DLMS/COSEM

SMART METER

FDM

DATA COLLECTION
Saturne-Alarm center
Dashboard & Reports

ISM

GAS ANALYTICS

DATALOGGING

- » Daily log consisting of data referred to UNI/TS 11291-6
- » Dynamic multi-tariff calculation
- » At end of billing period, the billing data is recorded (256 entries)
- » Daily logging performed periodically on Gas-Hour each day (512 entries)
- » The event log stores event information with volume and time (2048 entries)
- » Parameter change log stores the time and old value of changed parameter, together with Volume and alarm state (4096 entries)

COMMUNICATION

- » TCP/IP communication
- » DLMS/COSEM protocol
- » COSEM high level security
- » Innovative "PLUSH" communication mode available
  - • Communication initiated by the meter
  - • Data Objects and schedules defined by the system
- » Daily scheduled readings
- » Automatic error messages
- » On demand status reads

METERING AND ALARMS

- » Remote Valve operation
- » Metrological and functional parts of the meter protected with separate seals
- » Alarms:
  - • Open cover alarm
  - • Metrological tampering alarm
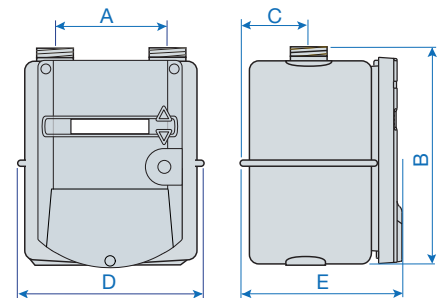 - • Battery low (threshold configurable)
  - • Backflow alarm

Technical Specifications

Parameter	Value
Gas type	Natural gas, air, propane, butane, nitrogen and all non-corrosive gases
Cyclic Volume	1.2 dm³
Measuring Range	G4 Qmin: 0.04 m³/h Qmax: 6 m³/h
Max. operating pressure	0.5 bar (0.1 bar for HTL version) Valve operation up to 0.15 bar
Temperature Range	Operating: -25°C to +55°C Storage: -25°C to +70°C (> 55°C for up to 8 hours)
ATEX approval	Zone 2 : 〈Ex〉 II 3G Ex ic IIA T3 Gc
Operating humidity	<= 93%, between -25°C and +40°C, <= 90%, between +40°C and +55°C
Colour	Grey White RAL 9002
Display	LCD with 9 digits
Service Interface	IR service interface (EN62056-21)
Battery	Lithium batteries with an average lifetime of minimum 7.5 years under reference conditions
Standards / Directives	Directive 2004/22/EC (MID), Directive 1999/5/EC (RTTE), Directive 2004/108/EC (EMC) Conformity with EN1359:1998-A1:2006
IP Protection	IP54 minimum protection level (according to EN60529)

Dimensions and Weight

Meter Type	Size mm					Weight kg
	A	B	C	D	E	
110mm	110	219 ±9*	67	190	158	2.00
160mm	160	225 ±2*	80	240	158	2.10

* Depending on the connection height

Connection threads

Type	110mm	160mm
ISO 228-1	G1 ¼" A *	G 7/8" A *

*Other meter types and versions are available.
Please contact us for further inquiries.