

Residential Smart Gas Meter (PCGZ) PREPAYMENT/CREDIT SMART AMI GAS METER



The PCGZ Smart AMI Gas Meters incorporate the latest Smart Grid technology currently available in the market. This Smart Meters can operate in the prepayment/Credit mode allowing automatic money charging. The meters include internal valve which can connect/disconnect the customers upon a command from the central office software or in case all money was consumed. Flow limitation is one of the important features this family brings to the Gas Utilities enforcing customers to pay their debt.

Internal RF transmitter/Receiver enables two-way, real time communication. The Gas meters communicate with existing Electricity meters or with RF Concentrator.

The Meters are fully certified for International certification.

The PCGZ family product is an integrated part of Powercom's' AMI "Smart Grid" solution.

FEATURES

- ◇ Can easily modified remotely from Prepayment to Credit
- ◇ Money charging via the communication or Smart Card
- ◇ Remote firmware upgrade via the communication (Optional)
- ◇ Incorporates internal Gas valve for remote connection/Disconnection
- ◇ Integrated two way RF communication with long distance transmission capability
- ◇ Implements fix price or Step Tariff (option)
- ◇ Sophisticated leakage security – self disconnection when leaks are detected
- ◇ Tamper protection and Magnetic influence notification
- ◇ Automatic disconnection when battery power is too low.
- ◇ Displays total user consumption to date, Current demand, Current tariff prices, cost (current month), cost (previous interval), Valve status (open/close), ,
- ◇ Displays Meter events: Low battery, Tamper, Disconnect, Emergency/Remote shutdown
- ◇ Includes essential operation information as: Meter serial number, Date and Time, Software version.
- ◇ Mass ,memory storage - Daily readings for over 365 days
- ◇ Long battery life time
- ◇ Using standard batteries with self maintenance.



CHARACTERISTIC

Model	Nominal flow-rate Qn M3/h	Max. flow-rate M3/h	Min. flow-rate M3/h
PCZG1.6A	1.6	2.5	0.016
PCZG2.5A	2.5	4	0.025
PCZG4A	4.0	6	0.040

SPECIFICATIONS

Total Pressure Loss [Pa]	<= 200
Operation Pressure Range [kPa]	0.5 ~ 50
Cyclic volume [dm3]	1.2
Permissible Error [Qmin <=Q<0.1Qmax]	3%
Permissible Error [0.1Qmax <=Q<=Qmax]	+/-1.5%
Min. Recording Reading [dm3]	0.2
Max. Recording Reading [m3]	99999.999
Operation ambient Temperature [DegC]	-10 to +40
Storage Temperature [DegC]	-20 to +50
Service Life [Years]	10
Connection Thread [mm]	M30x2
Central Distance [mm]	110/130 – or by the customer
Surface Painting	Polyester Powder Plastic Coating (Gray)
Voltage Range	6V DC from 4 AA Batteries
Max. Power Consumption	Less than 0.2A
Temperature range	
- Specified operating range	-10° to +40 °
- Storage and transport	-20° to +50 °
Humidity	<=93% RH
Min. Display recording	0.01 dm3
Max. LCD recording reading volume	99999.999m3
- Alarm Output	Buzzer (optional) and LEDs for light error alarm (low battery, communication, Hardware fault, Leakage, Prepayment Demand).
Credit/ Prepayment remote meter setup	Supports prepayments or credit upon remote configuration
Weight	2.0 Kg
Energy Transmission Life Time	> 10 years
Material	Aluminum
Installation Type	Wall mounted
Communication Distance [open site]	Around 1000 m
Memory	1MB Serial Flash
Connectivity	RS485 or Radio Frequency

