Prepaid Aluminum Diaphragm Gas Meter

IC card prepaid gas meter deemed as the smart measuring instrument based on the mechanical diaphragm gas meter, with installing controlling valves, electrical controls and IC card operation system, which remains metering accuracy of mechanic meters and at the same time realizes automated management. The IC card prepaid gas meter, with compact structure and advanced technology,is convenient to operate and reliable in usage.

The product is a main device, which helps city gas companies and gas users realize the scientific and automated management of supply and use. The IC card has prepaid function and the credit and surplus credit can be displayed through the LCD. The product is applicable for the metering of artificial coal gas, natural gas, and liquefied petroleum gas.

The product meets the requirements of the EN1359:1998/A1:2006 and OIML R137(edition 2012) standards.



Main features：

- Prepaid and using control
- Credit accumulation
- Presentation of gas status, credit accumulation and surplus credit
- Data protection
- Voltage checking and low-voltage warning
- Valve automatic closing when in low voltage or out of power
- Reminding insufficiency of gas
- Magnet attack protection

Technical Specifications:

Items		Unit	CG-L-G1.6A	CG-L-G2.5A	CG-L-G4A
Nominal flow-rate		m^3/h	1.6	2.5	4.0
Max flow-rate(Qmax)		m^3/h	2.5	4.0	6.0
Min flow-rate(Qmin)		m^3/h	0.016	0.025	0.04
Cyclic volume		dm^3	1.2		
Accuracy			Class 1.5		
Casing materials			Aluminum		
Approvals			EN1359 and EN16314		
Total pressure loss		Pa	≤200		≤250
Max working pressure		bar	0.5		
Error	Qmin≤Q<0.1Qmax	%	±3		
	0.1Qmax≤Q≤Qmax	%	±1.5		
Display range min.		dm^3	0.2		
Display range max.		m^3	99999.999		
Operation temperature		℃	-25 to +55		
IC card service life		Frequency	⩾10000		
Motor valve life		Frequency	⩾10000		
Battery type		V	Alkaline battery: DC6.0V (4 pcs 5#)		
			Lithium battery: DC 3.6V (1pc)		
Data acquisition			Pulse (Reed or Hall sampling counting)		
Explosion proof grade			II 3G Ex ic IIA T3 Ga		
Degree of protection			IP65		

Dimensions:

Model	H	L	D	B	S	M	Weight
CG-L-G1.6A	224mm	211mm	73mm	183mm	130mm	M30x2	2.00kgs
CG-L-G2.5A	224mm	211mm	73mm	183mm	130mm	M30x2	2.00kgs
CG-L-G4A	224mm	211mm	73mm	183mm	130mm	M30x2	2.00kgs

