

CATALOGUE

GAS METER

2022



Diaphragm Gas Meter

ANALOG - RS485 MODBUS

Product Introduction

SAITEC supply Diaphragm Gas meter is a widely applicable to the measurement of natural gas, artificial gas, liquefied petroleum gas, etc. The meter support RS485 Modbus protocol, combined with the meter reading system to establish a remote automatic meter reading management system to truly realize meter reading automation.

The full line RS485 remote transmission gas meter produced by our company has a 485 communication bus interface, which can not only cooperate with the system master station or dedicated PLC equipment to read gas meter data, but also be used separately as a common mechanical gas meter.

Feature

- ▶ The register displays the total gas consumption.
- ▶ Protect against strong magnetic, tamper and disassembling.
- ▶ Easy installation and construction
- ▶ Apply to Natural Gas, Biogas, LPG and all non corrosive gas for industrial use.
- ▶ Body case made through die-casting of high-quality steel.
- ▶ The product uses the pressure difference between the air inlet and the air outlet to push the diaphragm and generate continuous motion through the double crank rocker mechanism to achieve accurate measurement of the gas volume. The civil steel shell series is a separate movement type structure.
- ▶ The outer casing is made of high-quality cold-rolled steel plate, which has excellent shell topcoat performance, strong adhesion, and good resistance to deformation and corrosion.
- ▶ Connected with the host computer, it has been equipped with remote automatic meter reading management system to

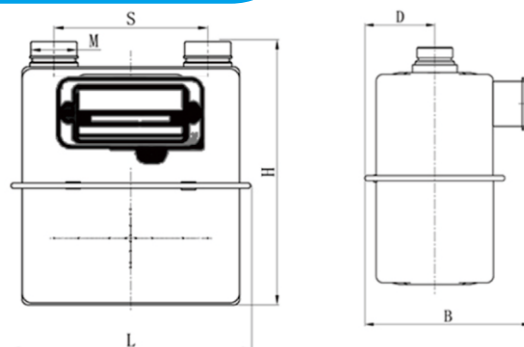
Technical Parameters

The Technical parameters	Unit	G1.6	G2.5	G4
Minimum flow	m ³ /h	0.016	0.025	0.04
Initial flow	dm ³	≤3	≤5	≤5
Maximum flow	m ³ /h	2.5	4	6
Cyclotron volume (Vc)	dm ³	1.2		
Max. Recording reading	m ³	99999.999		
Accuracy Level		1.5		
Maximum allowable error	%	(0.1qmax≤q≤qmax)±1.5		
Maximum working pressure	kPa	≤80		
Total Pressure absorption	Pa	≤200		
Working Temperature	°C	-10°~ + 55°		
Storage Temperature	°C	-20°~ + 60°		
Explosion-proof grade	\	Exib II B T3 Gb		
Level of protection	\	IP65		
Communication	\	RS485 - Modbus		

Diaphragm Gas Meter



Dimensions



Model	M (mm)	Size Connector	L (mm)	B (mm)	D (mm)	H (mm)	S (mm)	Weight (kg)
G1.6	M30*2	DN15 DN20	195	166	65	225	130	2.05
G2.5	M30*2	DN15 DN20	195	166	65	225	130	2.05
G4	M30*2	DN15 DN20	195	166	65	225	130	2.05

To get more smart a meter

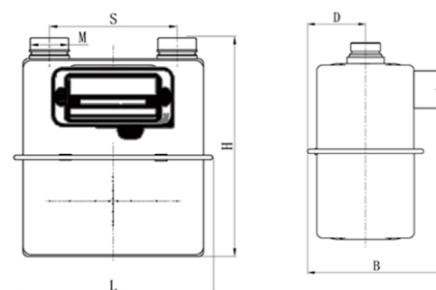
Diaphragm Gas Meter

ANALOG - RS485 MODBUS

Technical Parameters

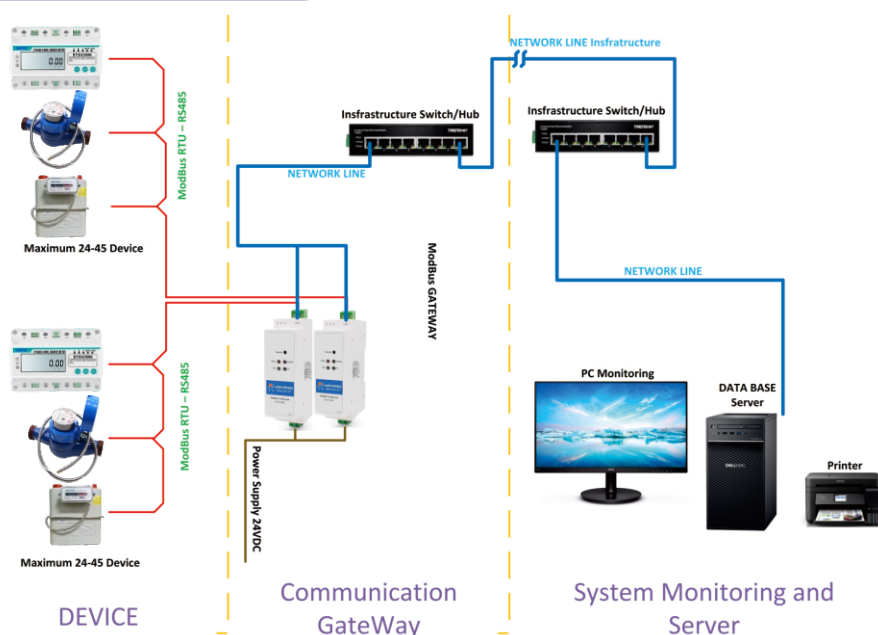
Technical parameters	Unit	G6	G10	G16	G25
Minimum flow	m³/h	0.06	0.1	0.16	0.25
Initial flow	dm³	≤8	≤12	≤12	≤15
Maximum flow	m³/h	10	16	25	40
Cyclotron volume (Vc)	dm³	2.6	5	8	15
Max. Recording reading	m³	99999.	99999.99		
Accuracy Level		1.5			
Maximum allowable error	%	(0.1qmax≤q≤qmax) ±1.5			
Maximum working pressure	kPa	≤80			
Total Pressure absorption	Pa	≤200	≤300		
Working Temperature	°C	-10°~ + 55°			
Storage Temperature	°C	-20°~ + 60°			
Explosion-proof grade	\	Exib II B T3 Gb			
Level of protection	\	IP65			
Communication	\	RS485 - Modbus RTU			

Dimensions



Model	M (mm)	Size Connector	L (mm)	B (mm)	D (mm)	H (mm)	S (mm)	Weight (kg)
G6	M42*2	DN25	250	192	78	262	160	3.8
G10	M64*2	DN40	285	217	92	335	180	5.3
G16	M64*2	DN40	333	245	106	375	220	8.6

System Operations





To get more smart a meter

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