

Features & Benefits:

- Low starting flow
- Max operating pressure: 0,5 bar
- Long-term stability due to usage of high-quality diaphragms
- Optional with backflow-precenter
- Anti-magnet protection
- Anti-store-up gas protection
- Power supply: 4x AA Battery
- LoRaWAN Compliance: Class A
- TX power: Up to 22 dBm

Calibration results:



SMART GAS METER

A smart gas meter with a prepaid function that can be adjusted and controlled according to specific needs. This gas meter is specially designed and utilizes advanced technologies such as the Internet of Things (IoT) and LoRaWAN communication protocols to enable wireless data reading and transmission.

Sensor implementations:



BUILDING (MALL)



MANUFACTURER



GAS & OIL



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SMART GAS METER

A prepaid gas meter that delivers precise measurements and innovation through the meticulous incorporation of tested component connections. The design not only ensures robust and secure performance but also guarantees airtight integrity, preventing any leaks.

Electrical Parameters

PARAMETERS	Smart Gas Meter
Power supply	6V×AA Battery (Alkaline Batteries)
Standby current	≤40uA
Active current	≤4mA
TX Current	≤126mA@22dbm
Battery usage monitoring	Accurate Coulomb Measurement
Battery undervoltage warning	Yes
MCU temperature monitoring	Yes
CPU working temperature	-20°C ~ +85°C
Storage temperature	-10°C ~ +60°C

Technical Specifications

PARAMETERS	Smart Gas Meter
Housing material	Die-cast Aluminum
Nominal flowrate (Qn)	1.6 m ³ /h
Maximum flowrate (Qmax)	2.5 m ³ /h
Minimum flowrate (Qmin)	0.016 m ³ /h
Maximum inlet pressure with valve	40 Kpa
Valve leakage under maximum inlet pressure	0.55 L/h @15Kpa



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PARAMETERS	Smart Gas Meter
Maximum permissible errors	0.1Qmax<=Q<=Qmax (1.5%) Qmin<=Q<=0.1Qmax (3%)
Max. pressure loss	<=2 mbar
Display range max	99999.9998 m3/h
Display range min	0.0002 m3/h
Accuracy class	1.5
Cyclic volume	0.9 dm3
Pulse value	0.01 m3/pulse
Wight	1.65 kg
Valve type	FR-143
Inlet-Outlet connection type	M30X2-6g
Inlet-Outlet distance (mm)	130
Flow Direction	left-right

LoRa Radio Parameters

PARAMETERS	Smart Gas Meter
Communication protocol	LoRaWAN
Network registration way	OTAA, ABP
LoRaWAN Uplink Confirmation	Confirm or Partially Confirm
ISM Bands	AS923, AU915, EU868
TX Power	Up to 22dBm
Uplink channels	8 settable channels with bandwidth of 125kHz
RX sensitivity	Down to -125dBm@BW = 125 kHz, SF = 7
Spreading factor	SF7 ~ SF10(Adaptive)
LBT (Listen Before Talk)	Yes



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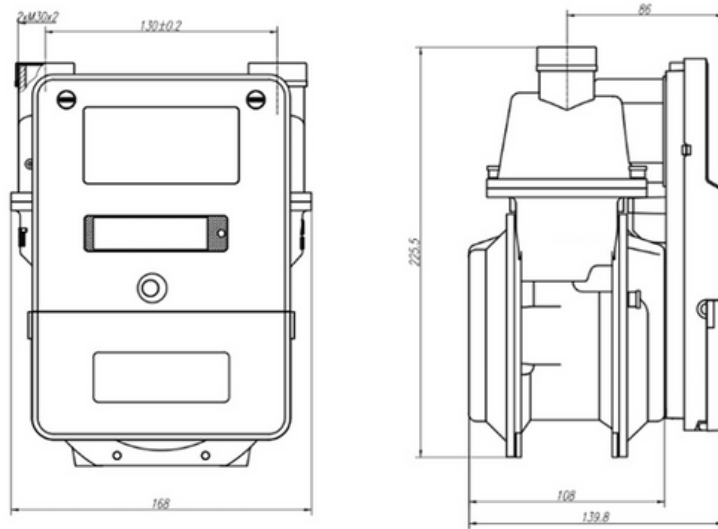


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PARAMETERS	Smart Gas Meter
Report interval	Configurable via Downlink Commands
Data Chahce when LoRa network interrupt	Yes
Built-in valve/relay	Valve
Anti-tampering	Yes

Dimensions Smart Gas Meter



Implementations Image



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