

GAS METER READER MODULE

RGM101 SMART READER MODULE



ACCESS PRECISE, UP-TO-DATE INFORMATION ON GAS CONSUMPTION

WITH SENSEMI'S AMI GAS METER MODULE

The Gas Meter Reader Module transforms traditional mechanical gas meters into intelligent, connected devices, enabling precise remote monitoring and data-driven management. Utilizing NB-IoT and LoRaWAN communication technologies, it wirelessly transmits real-time consumption data to utility providers, forming an integral part of an Advanced Meter Infrastructure (AMI) system. This module is an ideal solution for gas distribution companies, sub-metering applications, and institutions such as hospitals, retailers, and schools, ensuring accurate consumption tracking in hard-to-read locations.

KEY FEATURES & ADVANTAGES

1.

Effortless Retrofit Capability

Easily integrates with existing gas meters, eliminating the need for costly replacements. Custom adapters can also be provided for wider network compatibility.

2.

Wireless Data Transmission & Smart Connectivity

Leverages LoRaWAN/NB-IoT to transmit gas usage data directly to the back office, ensuring secure, reliable, and real-time communication.

3.

Precision Measurement with Advanced Magnetic Sensor

The built-in magnetic sensor detects pulses directly from the meter, eliminating the need for third-party pulser boxes, ensuring accurate and seamless data capture.

4.

Long-Lasting Battery Performance

Powered by a lithium battery, providing up to 5 years of operation with daily readouts and extending to 10 years with weekly transmissions, reducing maintenance costs.

5.

Tamper Detection & Security

Detects unauthorized device removal, lid opening, or external magnetic interference, triggering instant alerts to prevent fraud and unauthorized access.

6.

Robust Data Security & Encrypted Communication

Ensures high compression and security standards, protecting metering data through a proprietary WAN protocol.

7.

Intelligent Device Health Monitoring

Includes a built-in temperature sensor to monitor ambient conditions, ensuring optimal performance and longevity.

8.

User-Friendly Display & Diagnostics

Equipped with an intuitive digital display, providing clear visibility of readings, diagnostics, and installation status, simplifying operation for field technicians.

9.

Plug-and-Play Installation

Easily attaches to mechanical gas meters without significant modifications, allowing for fast, hassle-free deployment.

BENEFITS OF THE GAS METER READER MODULE



Upgrade Existing Infrastructure Without Full Replacement

Utility companies can retrofit their current mechanical meters, eliminating the need for costly replacements while gaining smart metering capabilities.



Enhanced Data Accuracy & Centralized Management

Provides real-time gas consumption data, improving billing precision and enabling better energy distribution planning. Aggregates data from multiple meters into a single platform for streamlined reporting and analysis.



Cost Efficiency & Energy-Saving Operation

Gradual upgrades reduce initial investment, while automated data collection and improved billing accuracy lead to long-term cost savings. Low power consumption extends battery life, reducing maintenance costs.



Unified Multi-Utility System Control

Integrates seamlessly with gas, water, and electricity meters, allowing utility providers to monitor and manage all meters from one central platform, enhancing operational efficiency.



Future-Proof & Scalable Design

Modular architecture allows for easy integration of emerging technologies, ensuring long-term adaptability and effortless expansion from small-scale to nationwide deployments.

