



Smart Gas Leak Detector

Advanced Wireless Gas Leak Detection
for Enhanced Safety



Wi-Fi



4G



Notifications



Alarm

Protects What Matters - Smart, Reliable,
and Always Connected



Protects What Matters !





Key Features



Always Reliable:

Built-in watchdog ensures continuous, fail-safe operation.



Easy Setup:

Configure directly via captive portal—no app required.



Instant Alerts:

Push notifications and SMS sent immediately to emergency contacts.



Dual Connectivity:

Wi-Fi with automatic 4G fallback for uninterrupted alert delivery.



24/7 Monitoring:

High-sensitivity gas detection for homes, offices, and light industrial spaces.



Cloud Connected:

Ready for integration with cloud dashboards and alert systems.



Secure & Personalised:

User details configurable; Wi-Fi credentials stored safely and privately.

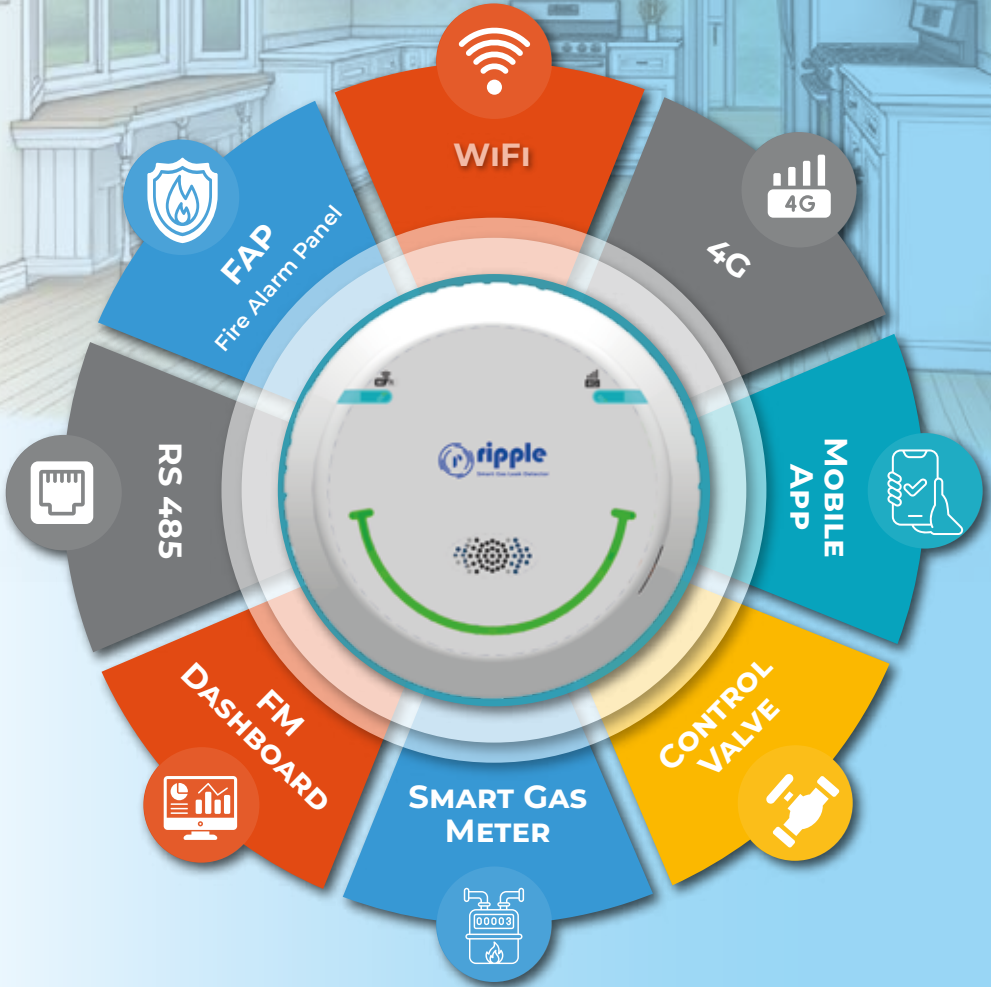


Technical Highlights

Specification	Details
Microcontroller	Dual-core SoC delivering efficient 32-bit processing performance
Sensor Interface	High-precision analog gas sensing (detects LPG & PNG)
Wireless Connectivity	Wi-Fi 802.11 b/g/n (user-configurable) with automatic captive portal for easy installation
Cellular (4G)	Integrated 4G support for SMS alerts and internet backup connectivity
Alert Channels	Real-time SMS alerts with customizable messages and unique device identification
Cloud Integration	Connects to Ripple server for instant alerts and safety monitoring
Configuration	Web-based, mobile-friendly interface—no app required
Continuous Monitoring	Hardware watchdog auto-resets the system in case of any hang, ensuring uninterrupted operation
Power Supply	5V DC input
Installation	Wall-mount, plug-and-play design for quick deployment



Smart Gas Leak Detector Architecture





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