

## Wireless Gas Detection System for Natural Gas Application

### DESCRIPTION

FirstSense wireless gas detection system works on integrated rechargeable or non-rechargeable lithium ion battery. The sensor used for Natural Gas Application is Methane Infra red type and additional sensors can also be used for similar or other applications. The Gas Detector is capable to communicate real time information to its corresponding Gateway which can further transmit the data to Cloud, SMS and or E-mail notifications.

### FEATURES

1. Rechargeable Li-Ion Battery.
2. Six+ months life with 7.4V @ 20.8Ah Battery.
3. One Transmission/ Day (Configurable).
4. Never Sleeps.
5. 2G & 4G Connectivity.
6. Redundant Dual 4G SIM Slots.
7. Transmits Real Time Readings, Battery Status and Alarm Alerts.
8. Configurable Alarms with SMS and E-Mail alerts.
9. 128x64 Graphical LCD Display or always ON electrophoretic Display.
10. LED Indication for Normal, Fault and Alarm Conditions.
11. PESO/ATEX approved.
12. Sensor Life > 15 Years.
13. Response Time < 3 Seconds.
14. Non-Intrusive Calibration.

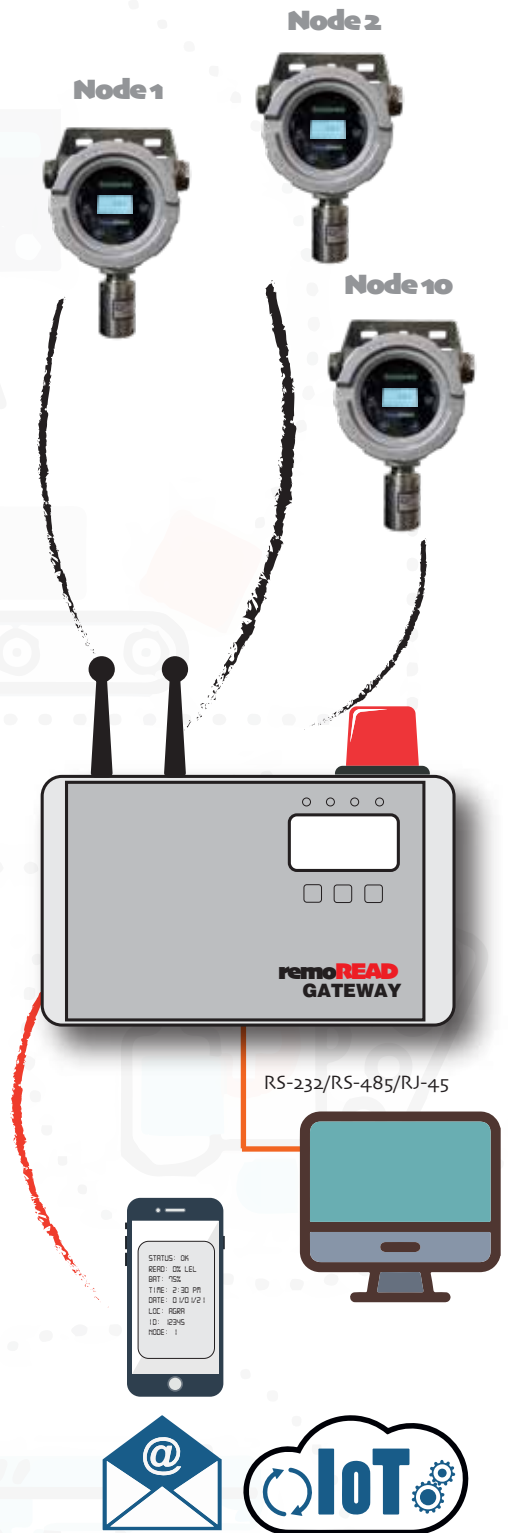


15. Provision to send the SMS Alarms without Gateway.
16. All data available on Cloud (Subscription Based).
17. No Distance limitation between the Sensor and Gateway.
18. IP 67 enclosure for remoREAD sensor and transmitter.
19. Weatherproof enclosure for remoREAD Gateway.
20. Up to 32 Nodes (Sensors) can be connected to one Gateway.
21. SMS alerts upto 16 customisable Mobile Phones.
22. Android/iOS application (Subscription Based).
23. Solar Panel option available to charge the battery during sunlight.

#### Customization Options

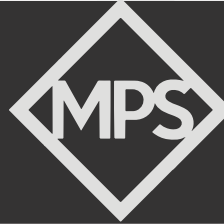
- Node (remoREAD) with short message services 12 SMS.
- Node (remoREAD) and Gateway with alarm and additional SMS up to 26 SMS.
- Node (remoREAD) and Gateway with RS232 port for Data logging export/SCADA

## SYSTEM LAYOUT



## Next Generation of Flammable Gas Detection

With  
Molecular Property Spectrometer™  
technology



Sensor Specifications	Gateway Specifications
Enclosure: Cast Aluminum Alloy LM6	Modem: Dual 4G SIM w/ Global Transmission
Sensor Enclosure: SS-316	Antenna: 3.0 dBi Internal/External
Ingress Protection: IP 67 or better	Modes: SMS/E-Mail (on request)/Cloud (on request)
Cable Entry: M20 or 1/2" NPT or 3/4" NPT	Alarms: Two Settable alarms, sensor fault, open
Output: Digital via dual 4G SIM	Healthy Alerts: Daily SMS notification of device status, battery condition, sensor fault and alarms.
Display: 128x64 Graphical Display or Electrophoretic Display (Always On)	Relays: Local for Alarms
Calibration & Settings: Non-Intrusive	Indication: Real time Display for all Nodes connected. LED indications.
Relays: Configurable Relay AL1, AL2	Local Operation: Mode Keys
Power: 7.4V 20.8Ah rechargeable Li-Ion Battery	Mounting: Wall/Panel
Sampling Method: Natural Diffusion	Working Temperature: -10°C to +50°C
Sensor: NDIR/MPS for Combustibles Electrochemical for Toxics	Power: 12~24VDC
Sensor Ranges: 0-100% LEL for Combustibles 50~10,00,000 ppm for Combustibles 0~100% VOL for Combustibles	Output: RS-232/RS-485 Modbus RTU
Working Temperature: -40°C to +70°C	Channel: 32+ detectors can be connected over single Gateway
Working Humidity: 0~99% RH	SMS Alert: 16 users can be configured
Response Time: <3 Sec Full Scale	Optional Strobe Light and Sounder
Accuracy: ± 1% for Full Scale Readings	(Optional) Cloud Services: Available against Subscription
Approvals: Ex dB IIC Gb T5 -40°C to 85°C ATEX/IECEX/PESO	(Optional) App Services: Available against Subscription

#wecandetect