

# Wireless Gas Detection System for Natural Gas Application

## DESCRIPTION

remoREAD 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. ATEX & SIL2 approved
12. Sensor Life > 15 Years.
13. Response Time < 3 Seconds.
14. Non-Intrusive Calibration.
15. No Calibration Required for MPS Sensor.



**remoREAD**

16. Provision to send the SMS Alarms without Gateway.
17. All data available on Cloud (Subscription Based).
18. No Distance limitation between the Sensor and Gateway.
19. IP 67 enclosure for remoREAD sensor and transmitter.
20. Weatherproof enclosure for remoREAD Gateway.
21. Up to 32 Nodes (Sensors) can be connected to one Gateway.
22. SMS alerts upto 16 customisable Mobile Phones.
23. Android/iOS application (Subscription Based).
24. 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.

## Next Generation of Flammable Gas Detection

With  
Molecular Property Spectrometer™  
technology

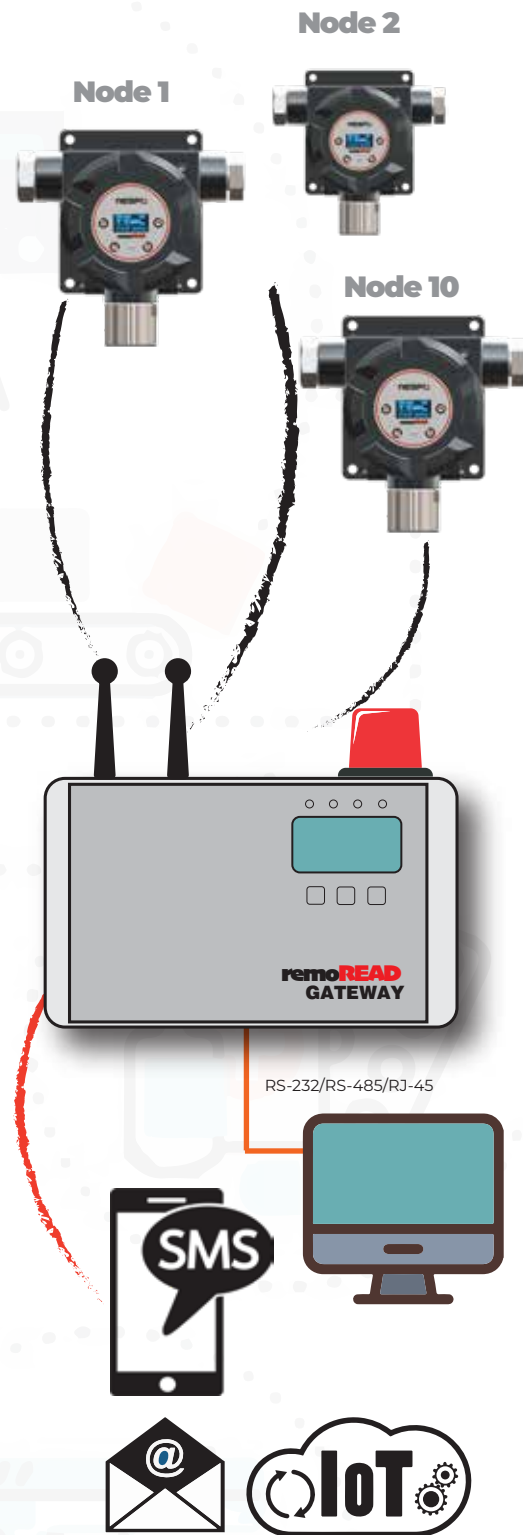
Accurately detect over  
15 hazardous gases  
(including Hydrogen)  
in one MPS sensor.



remoREAD Detector Specifications	Gateway Controller Specifications
Enclosure: Cast Aluminum Alloy LM6	Modem: Dual 4G SIM w/ Global Transmission
Sensor Enclosure: SS-316	Antenna: 3.0 dBi Internal
Flameproof Audio/Visual Alarm (Optional)	Modes: SMS E-Mail/Cloud (on request)
Cable Entry: M20 or 1/2" NPT or 3/4" NPT	Alarms: Low, High, Fault and Common
Healthy Alerts: Daily SMS notification of device status, battery condition, sensor fault and alarms.	Wall Mounted, Weatherproof Housing
Output: Dual 4G SIM 1. Physical 2. eSIM	Healthy Alerts: Daily SMS notification of device status, battery condition, sensor fault and alarms.
Display: 128x64 Backlight Graphical Display	Relays: 4 Relays
Calibration & Settings: Non-Intrusive through Magnetic Wand	Indication: Real time Display for all Nodes connected. LED indications.
Contacts: Configurable AL1, AL2	Local Operation: Mode Keys
Power: 7.4V 20.8Ah rechargeable Li-Ion Battery	Mounting: Wall
Sampling Method: Natural Diffusion	Working Temperature: -10°C to +50°C
Sensor: NDIR for Methane MPS for Methane and all Combustibles Electrochemical for Toxics	Power: 220 VAC
Sensor Ranges: 0-100% LEL for Combustibles	Output: USB/RS-485 Modbus RTU
Working Temperature: -40°C to +70°C	Channel: 32+ detectors can be connected over single Gateway
Working Humidity: 0~100% RH (MPS Sensor)	SMS Alert: 16 users can be configured
Response Time: < 5 Sec Full Scale	Optional Strobe Light and Sounder
Accuracy: ± 1% for Full Scale Readings	
Approvals: Ex dB IIC Gb T5 -40°C to 85°C ATEX	
Protection: IP 68	
SIL2 Certified IEC 61508:2010 Parts 1-3	

\* Specifications can Change according to the Customer Requirement.

## SYSTEM LAYOUT



# #wecandetect