GAZOMAT™

an ecotec company

Methane Emissions Monitoring for the Natural Gas Industry

NGMesh

Comprehensive Methane Emissions Monitoring System

- A turnkey solution for methane emissions regulatory compliance
- Passive methane monitoring sensors
- Wireless connection with NGMesh system
- Easy to deploy and to move
- Simple and reliable
- Solar powered

The NGMesh enterprise system includes all the hardware and software required for leak detecting in a single package. This 24/7 monitoring system detects methane leaks and automatically alerts designated individual via the mobile app so the appropriate mitigation measures can be taken to repair the leak, minimize safety risks, greenhouse gas emissions, and product loss. There is no need to use multiple vendors for 24/7 monitoring, on-site surveys, report preparation and data storage; NGMesh does it all.

Comprehensive Monitoring System

System components

▶ GAZPOD with INSPECTRA® Technology

- 24/7 monitoring
- Wireless cellular network connection to the enterprise system
- Solar or AC powered – tailored to your facility

▶ NGMesh Mobile Application and Web Software

- Connects to GAZPOD and collects data
- No new IT infrastructure necessary, app runs on Android and iOS, web software runs within most browsers

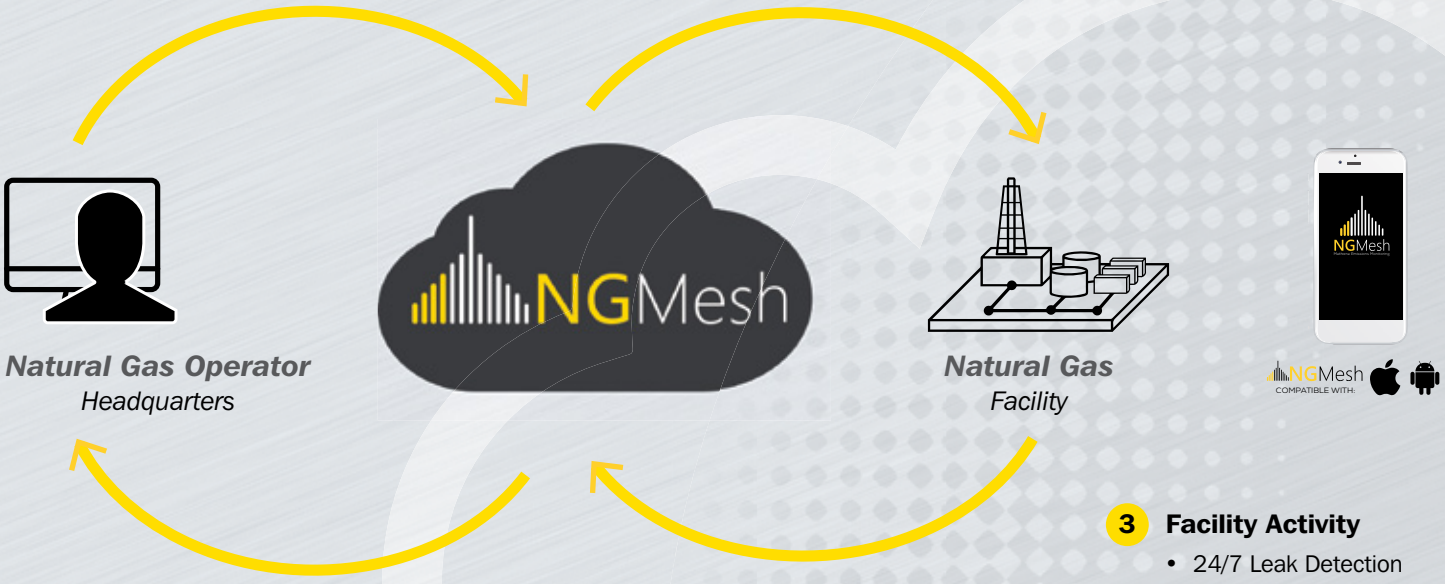
1 Company Management

- Monitor methane and VOC levels 24/7
- Create and manage facility profiles
- Schedule on-site detection surveys
- Review and submit regulatory reports

2 Automated Survey Scheduling

- On-site personnel automatically receive survey order(s) from administrator
- All facility updates are reflected in the mobile app automatically

NGMesh Turnkey System : How it works



3 Facility Activity

- 24/7 Leak Detection
- Leak Detection Surveys to pinpoint leak

4 Wireless Data Transfer

- Automated, secure, wireless data transfer to Tier 3 data center

5 Real Time Monitoring Updates

- Automated notifications and alerts when leaks occur
- On-site survey completion status alerts
- Automated on-site survey report generation

Methane Detection Technology

The GAZPOD sensing unit uses the proven laser spectroscopy technology of the GAZOMAT™ INSPECTRA®, a device with 20 years of proven reliability in natural gas leak detection down to 1ppm accuracy. The INSPECTRA® is a portable laser spectroscopy instrument. This highly sensitive detector offers all the advantages of optical detection in a highly compact and reliable device, giving precise and reliable measurements during methane leak detection.

► Key features of the INSPECTRA® LASER technology:

- Total selectivity to methane, sensitive below 1ppm
- Connects with NGMesh mobile app to automatically send readings to the enterprise system
- Extended measurement range, from 1ppm to 100% gas volume
- Operates in all weather conditions

NGMesh Cloud Entreprise System

System Details

1 Company Management

- Manage your company's leak detection operations on any internet connected device.
- View updated methane and VOC measurement data 24/7 from each facility and be alerted of any leaks that are detected.
- Adjust alert levels and customize notifications for your organization.
- Add / edit / remove component profiles at each facility (i.e. compressors, valves, pipes, flanges) that you want to specifically monitor during on-site surveys.

2 Automated Survey Scheduling

- Add users and assign them roles within the company such as on-site personnel so they can perform the on-site leak detection surveys at each facility.
- Easily schedule one-time or recurring surveys for different facilities. The personnel assigned to that facility (through the user role assignment feature) are automatically notified of their survey task through their NGMesh mobile app.

3 Facility Activity

- GAZPODs continuously monitor methane and VOC levels at the facility and any reading above a user-defined threshold will trigger automated alerts, enabling a prompt response to mitigate the leak.
- On-site personnel perform leak detection surveys and the NGMesh mobile app automatically stores the methane level data and transfers it to the NGMesh web software where survey reports are generated.

4 Wireless Data Transfer

- Data from GAZPOD and on-site personnel's mobile devices is automatically transferred securely to the NGMesh web software. There is no need for on-site personnel to email or download data files and deliver them to their supervisors.

5 Real Time Monitoring Updates

- Methane and VOC measurement data is continuously updated for the company administrator to view.
- Notifications and alert settings can be customized to alert the administrator of any event such as methane levels rising above a specified threshold or a survey being completed by on-site personnel.
- On-site survey data is automatically formatted so reports can be generated for internal company review or submission to regulatory agencies.

NGMesh: Field Verification

The NGMesh mobile app can be used to run field verification tests and have the data automatically uploaded to the web based software where administrators can view results and submit data for regulatory or quality control purposes. The mobile app will run verification test automatically where 100% nitrogen and subsequently 50ppm methane will be passed through the device to confirm and document the accuracy of the INSPECTRA® readings.

Contact us today for a detailed quote or information
on your complete methane emissions monitoring system:
info@gazomat.com

ISO 9001 BUREAU VERITAS Certification

After-sales service
GAZOMAT provides all customers with comprehensive product assistance and maintenance through its global service teams.

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