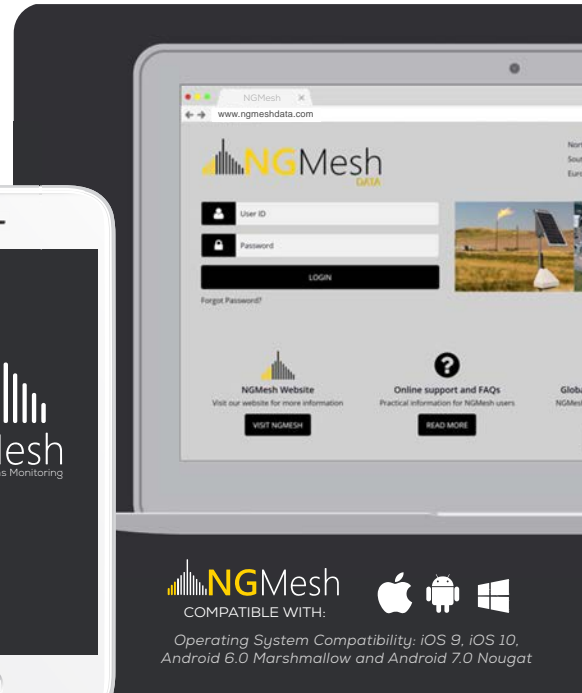


Methane Leak Detection Cloud Enterprise System

FEATURES

- **NGMesh Combines 24/7 methane and VOC leak detection, automated notifications & alerts and on-site leak detection survey capability into a single system**
- **NGMesh Pods have a built-in cellular wireless network connection - No WiFi network connection required**
- **Web app enables simple facility management, 24/7 leak monitoring, leak detection survey scheduling and data review**
- **Automated methane leak survey report generation for internal quality control and regulatory compliance**
- **Cloud-based software runs on any web browser - No software installation required**



● **INSPECTRA®** : Portable, method 21 approved instrument for leak detection surveys. Connects to NGMesh mobile app for automated data logging and transfer.



● **NGMesh pod**: Installed at facility for 24/7 methane and VOC leak detection



TURN-KEY SOLUTION

The NGMesh cloud enterprise system includes all the hardware and software required for leak detection in a single package and provides simple pricing models for its service, making it easy to implement a methane leak detection system today. Detecting methane leaks at natural gas facilities is an important aspect of safe, productive and compliant natural gas operations. Operators can detect leaks and be alerted automatically so the appropriate mitigation measures can be taken including alerting on-site personnel to pinpoint and repair the leak to minimize safety risks, greenhouse gas emissions and product loss.

NGMesh Cloud Enterprise System

:HOW IT WORKS

1 Company Management

- Monitor Methane and VOC levels 24/7
- Create and manage facility profiles
- Schedule on-site leak 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

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 alerts
- Automated on-site survey report generation

Natural Gas Operator
Headquarters

Natural Gas
Facility



Methane Detection Technology:

Using laser based methane leak detection technology proven in the natural gas fugitive emissions industry over the past 20 years, the **NGMesh** system combines proven methane detection instruments with turnkey enterprise system functionality for 24/7 leak monitoring and on-site leak detection capability. The **NGMesh** pod 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 the user 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 Enterprise 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.
- Order on-site surveys to investigate leaks and comply with environmental regulations.

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**

- **NGMesh pods** continuously monitor methane and VOC levels at the facility and any readings 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** cloud where survey reports are generated.

4 **Wireless Data Transfer**

- Data from the pods and on-site personnel's mobile devices is automatically transferred securely to the **NGMesh** cloud. 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 Pod Sensor Platform



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

NGMesh INSPECTRA® - Leak Pinpointing Instrument



- INSPECTRA® is a method 21 accepted instrument
- INSPECTRA® connects to the **NGMesh** mobile app and automatically logs and transfers data to cloud

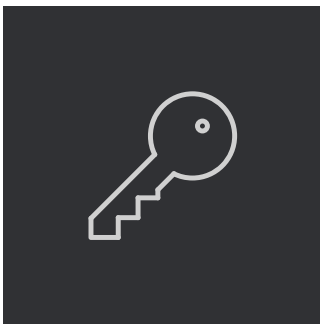
Ecotec:

A History of Excellence in Fugitive Emissions

- 20 years of monitoring fugitive methane emissions under EPA NSPS regulations for Fortune 100 companies using cloud based enterprise system to collect data and generate reports.
- Ecotec continuously processes environmental data from around the world produced by instrumentation designed and manufactured by Ecotec. The data collected and processed equates to over \$35 million (USD) in carbon credits to date and is growing daily.
- Carbon credit processing system validated by extensive audits performed by SGS/TUV-SUD/DNV-GL so the data qualifies as acceptable for use in carbon credit processing under the rigorous standards set by the United Nations.
- Designed and implemented a cloud based SCADA systems to meet the United Nations Clean Development Mechanism (CDM) protocol.
- Experienced in enterprise cloud development. All processing and data management is in a Tier 3 data center and follows the Microsoft security model.

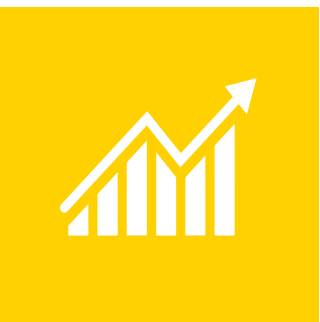
NGMesh:

Delivering Value to NG Operators



Turn-Key System- 24/7 Monitoring with On-Site Survey Capability:

The system combines the ability to monitor leaks 24/7 through a powerful web app and then investigate leaks with an easy-to-use mobile app via on-site leak detection surveys. The mobile app is fully integrated with the enterprise system and automatically uploads data to the cloud, eliminating the need for paper records and manual data transcribing and transfer. There is no need to use multiple vendors for 24/7 monitoring, on-site surveys, report preparation and data storage; **NGMesh** delivers it all in one package.



Operate Lean - Reduce Recurring Costs

Without the need to purchase other equipment or maintain any of the software, the **NGMesh** enterprise system can help identify and mitigate leaks to drive productivity. The **NGMesh** cloud is fully supported and maintained so there is no need to build and support any new IT infrastructure; The web and mobile applications run seamlessly on your existing devices (desktop, laptop, tablet and cell phone).

Ecotec:

Continuous Innovation

Ecotec is committed to providing industry leading solutions for fugitive emissions monitoring by working closely with customers to address their unique emissions monitoring needs.

With over 20 years of experience running cloud enterprise systems for Fortune 500 companies for fugitive emissions monitoring, we know what it takes to offer reliable services to its customers in the most demanding conditions. We are continuously investing in the **NGMesh** cloud enterprise system whether that be expanding its data processing capabilities, developing new web and mobile app

functionality including notification and alert features or simplifying the data management and reporting process. We ensure that the **NGMesh** software package is constantly upgraded to be compatible with ever changing mobile/web standards and operating systems.

NGMesh:

Uses Method 21 Approved Technology

The **INSPECTRA**® is a method 21 approved device and therefore the data it produces will be accepted as part of the Environmental Protection Agency's (EPA) New Source Performance Standards (NSPS) reporting regulations. Data from Method 21 instruments is accepted by the California Air Resources Board (CARB) as well as EPA for fugitive emissions monitoring. In addition, state regulations often follow EPA regulation guidelines, making the **NGMesh** cloud enterprise system a solution designed to make regulatory reporting simple.

NGMesh:

Field Verification

The **NGMesh** mobile app can be used to run field verification tests and have the data automatically uploaded to the cloud, 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 accurate of the **INSPECTRA**® readings.

Simple • Reliable



Methane Emissions Monitoring

A comprehensive solution for
methane emissions monitoring
and regulatory compliance

Contact us today for further information as well as a detailed quote
on your turn-key leak detection cloud enterprise system.

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