# GAZOMAT™
an ecotec company

Survey of Natural Gas Networks

NGS

Gas Network Survey Software

- Optimised traceability of network surveys
- Solution that can be used worldwide
- Optional regular map updating
- Real-time view of the circuit

The NGS monitoring software has been developed by GAZOMAT™ to meet the requirements of gas network operators. It offers ease of use and reliability for the optimised management of Systematic Leak Detection. When used in combination with the INSPECTRA® and GPS systems, it is a formidable tool at the service of gas operators.

Two types of use available

• **In a vehicle** for leak detection with the Network Survey Vehicle and its equipment.

• **On foot** with INSPECTRA® LASER detector and GPS Tablet.

NGS software main screen

Menu bar

Mission stop button

Flow display

Date

Time

In a vehicle

On foot

Distance covered

Distance to cover

Start free round

Travel speed

Start of predefined mission and circuit resumption

Longitude

Latitude

Mission review

GPS reception status

Pump

Current value

Maximum value

Test button

Note   Pause   Analyser area   Map display area

The NGS software provides the operator with the choice between three monitoring options

• **Monitoring mission in free round mode :**
This option allows you to carry out systematic leak detection on foot or in a vehicle, defining your circuit as the mission is completed within a given zone.
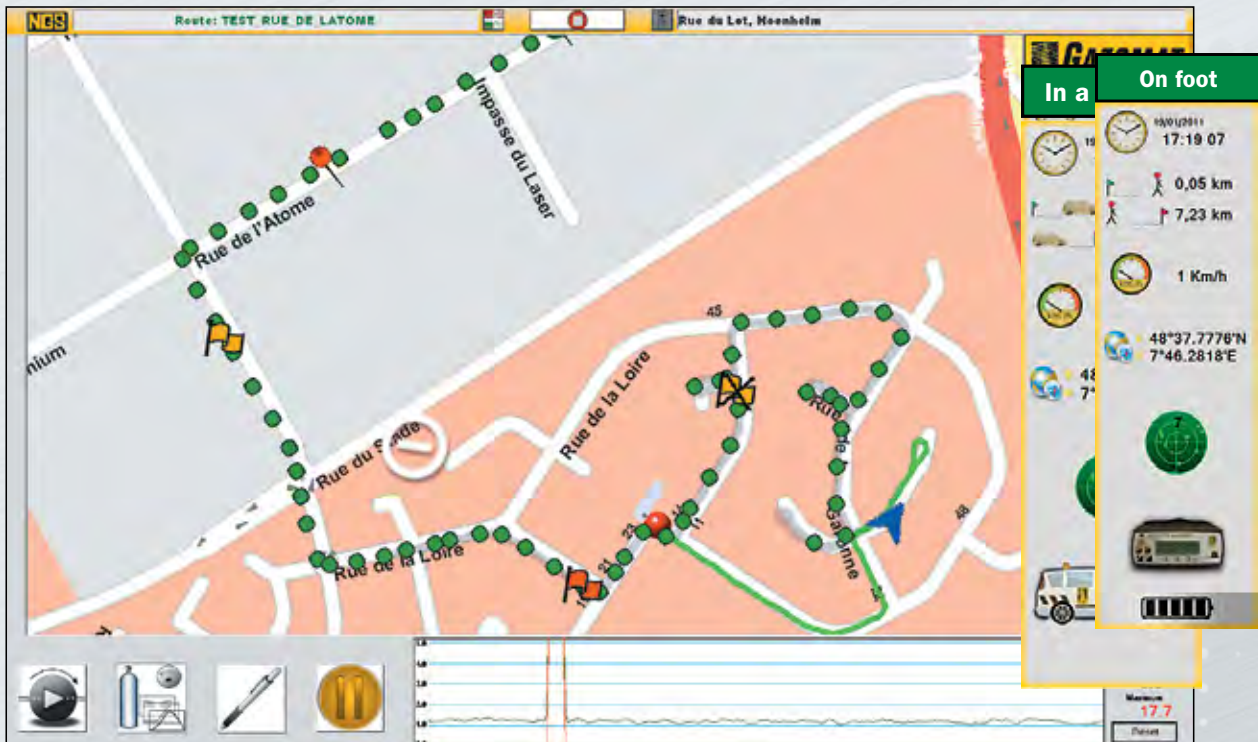
• **Mission resumption :**
This option is used to resume a survey on foot or in a vehicle from the spot where it had been left off.

• **Monitoring mission in a predefined circuit :**
This option is used to complete a circuit from an existing mission file (predefined circuit). When there is no such file, it can be generated easily after the circuit is completed or when a circuit is resumed.

Ease of use

- Use of network plans in hard or electronic form.
- Location and automatic logging of measures for traceability.
- Highly flexible and user-friendly.

Customisable solution

- The software operates with country mapping depending on availability.
- User-friendly interface.
- Software adapted to the local language.

Simplified interface

- Real-time view of the road and piping networks.
- Notes may be added by the operator at any time.
- Automatic display of error messages and gas leak indications.

Dedicated surveys

To monitor gas networks, operators need to enter their mapping data (itineraries, buildings, land plans etc.) in a dedicated directory

in SHAPE format comprising three files with the following extensions:

- **xxxx.shp**
- **xxxx.dbf**
- **xxxx.shx**

These files need to be generated **in SHAPE format** and the GPS coordinates need to be in **WGS84 format**.

NOTE :

- When the user resumes a round, they must use the files of the mission already completed (ending with the **".NGS" extension**).
- While following a circuit, the user can use those same missions.

Mission report

At the end of each survey mission, the NGS software generates a report comprising all information relating to the mission (operator's name, location, route, weather conditions, events recorded during the mission, etc.) and an individual report sheet for each gas leak indication with corresponding map view.

All the measurement data and information entered at the start and during the survey mission are grouped together in a single compressed file. The file contains the following items:

- The survey mission report in PDF format.
- Two files in SHAPE format named as follows:
  - o Evenements.shp : the file gathers together all the events occurred during the mission (gas leak indications, malfunctioning, etc.) also in SHAPE format.
  - o Points_gps.shp : the file contains all the gas concentrations measured during the completed circuit.

Examples of reports generated by the NGS software:

View of the circuit during mission review

Survey report (1st page)

Individual report sheet for each gas leak indication

View of the circuit with Google Earth

The NGS software makes it possible to view the circuit and measured gas concentrations with Google Earth.
It just requires Google Earth to be installed beforehand.

ISO 9001
BUREAU VERITAS
Certification

Authorized agent

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