



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.

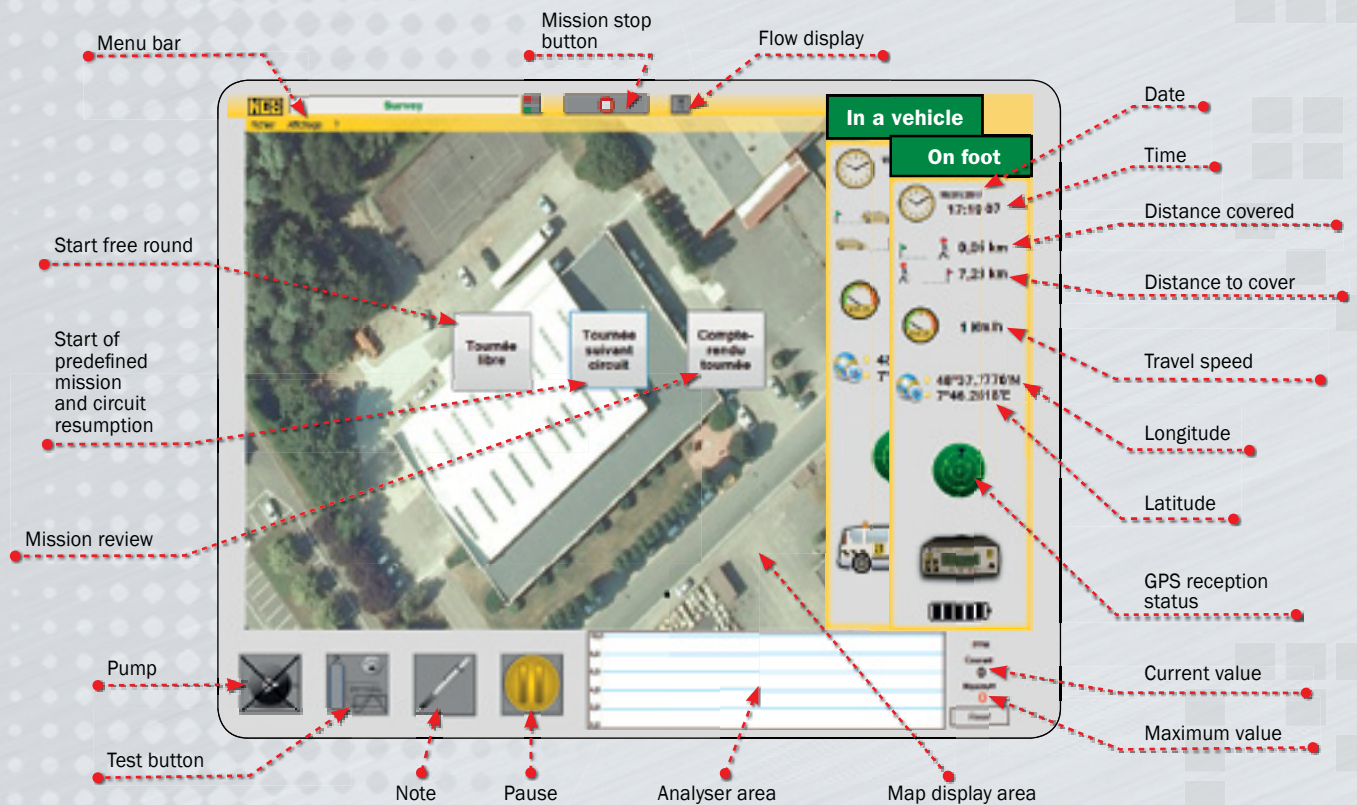
Two types of use available



• **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



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.

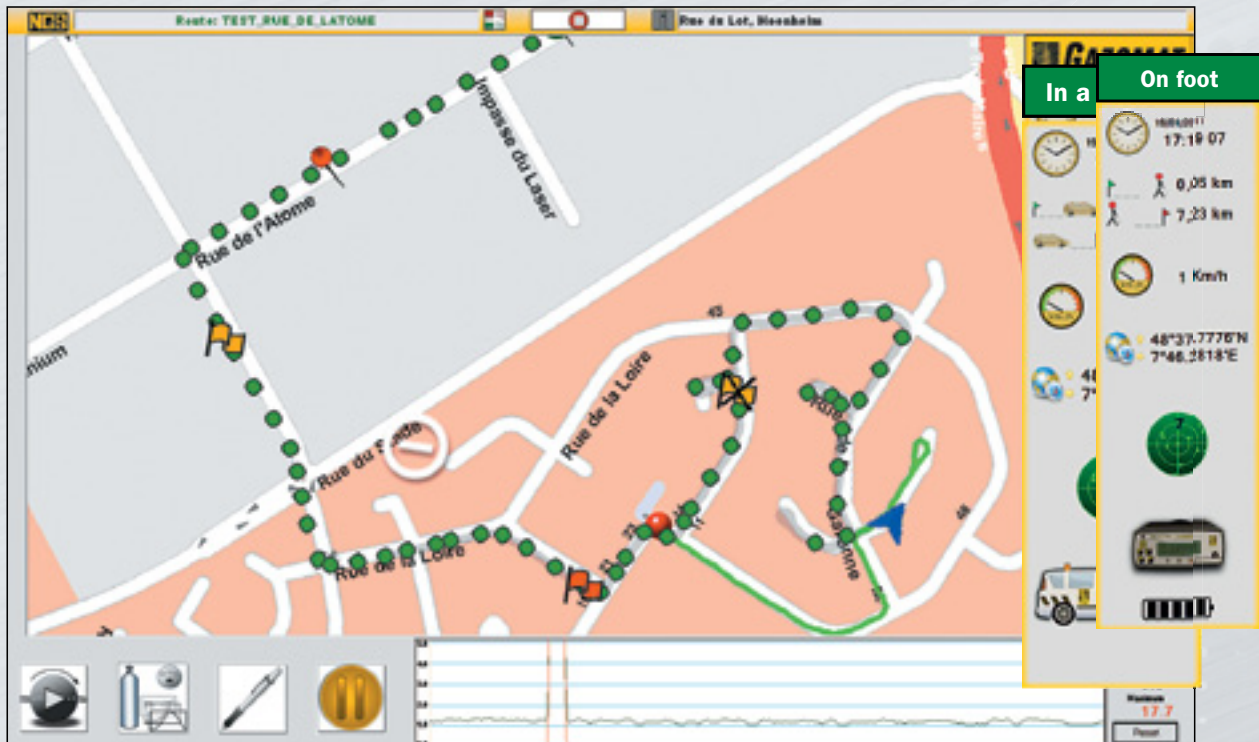
• Mission resumption :

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.

NGS screen during the mission



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

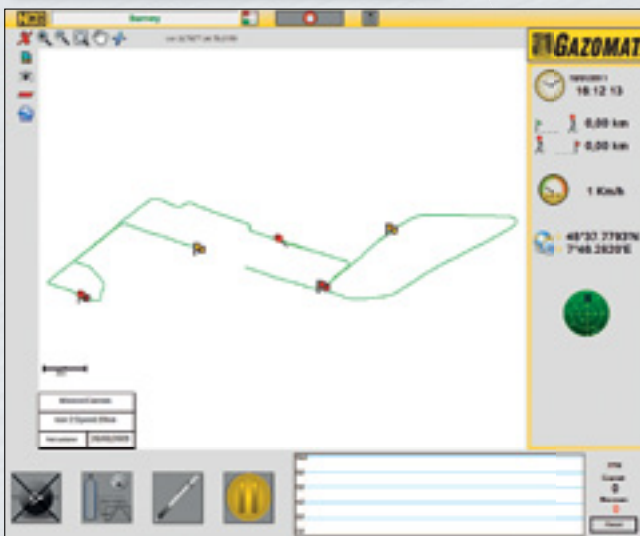
At the end of each survey mission, the NGS software generates a report comprising all information relating to the mission (operator's name, location, route, weather conditions, events recorded during the mission, etc.) and an individual report sheet for each gas leak indication with corresponding map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



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.

Survey report (1st page)

Survey report	
SurveyNumber test 2 Speed 20km	SurveyName test 2 Speed 20km
Date	26/08/2009 08:52
Operator	claude
City	Dominique
Supplier	TALLIN
Provider	Test customer
VSR ID	Gazomat
Bottle Ref	4585BAW57
Emergency Phone	458e4544
Weather	01233456789
Distance	sunny
Clue detected	Survey distance : 3,42km 17

Date	Time	Lat	Lon	Event	Comments
26/08/2009	08:52	59.427151	24.794460	Mission - Debut	Begin of Mission
26/08/2009	08:52	59.427151	24.794460	Test - Debut	
26/08/2009	08:52	59.427151	24.794460	Test -	Success
26/08/2009	08:52	59.427151	24.794460	Detecteur	
26/08/2009	08:52	59.427151	24.794460	Test - Temps de reponse	Success
26/08/2009	08:52	59.427151	24.794460	Test - Temps de reponse	Success
26/08/2009	08:52	59.427151	24.794460	Test - Fin	
26/08/2009	08:55	59.428520	24.799860	Pause - Debut	Paused by user
26/08/2009	08:55	59.428520	24.799860	Pause - Fin	Resumed by user
26/08/2009	09:07	59.428471	24.799789	Indice accepte	egout
26/08/2009	09:07	59.428471	24.799789	Indice accepte	
26/08/2009	09:08	59.428471	24.799789	Indice accepte	

Clue1	
Information	
Location :	? Majaka poik Tallin
Latitude :	59.428471
Longitude :	24.799789
Concentration :	8,0PPM
Date	26/08/2009 08:52
Operator	claude
City	Dominique
Supplier	TALLIN
Provider	Test customer
VSR ID	Gazomat
Bottle Ref	4585BAW57
Emergency Phone	458e4544
Weather	01233456789
Comment	

Individual report sheet for each gas leak indication



After-sales service

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

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