

# THE GAS-ROVER™ DOES IT ALL ... NOW WITH GPS!

## SURVEY, TRACK, LOCATE, GRADE, AND DRASTICALLY REDUCE BAR-HOLING

The Gas-Rover™ can be used for handheld or mobile surveys and for responding to indoor or outdoor leak calls. The Gas-Rover locates leaks, grades them, does safety checks and, in the process, greatly reduces the number of bar-holes needed to be placed on the property. What makes the Gas-Rover so versatile is its calibrated accuracy in the PPM range of gas, its intrinsic safety, its optional carbon monoxide and oxygen sensors, and its extensive and automatic data collection and storage. The Gas-Rover also has optional GPS capabilities that attach longitude and latitude coordinates to any leak survey.

### Survey on Foot or By Truck

The Gas-Rover can be used for leak surveys on foot or by vehicle. Since it also provides all the functions of a CGI, it can be used to bar-hole in the course of a survey whenever necessary.

### Track, Locate, and Grade

Outdoor tracking and locating are done with the Survey mode of the Gas-Rover. Grading is done with the Bar-hole mode. The Customer Service technician can use the Gas-Rover to surface sample the suspected leak area prior to placing any bar-holes, and can then begin bar-holing in the area where the Gas-Rover indicated the presence of gas. This greatly reduces bar-holes placed outside the actual leak area.

An average gas utility may place several hundred thousand bar-holes in the course of a single year, many of which return a zero reading. Reducing the number of bar-holes, perhaps by as much as half, significantly reduces wear and tear on the workforce and their equipment, and increases productivity.

Rover vs. Conventional FI		
	<u>FI</u>	<u>Rover</u>
Walking survey	Yes	Yes
Mobile survey	Yes	Yes
Fuel-free	No	Yes
CGI included	No	Yes
Self-calibrates	No	Yes
Self-documents	No	Yes
Docking calibration	No	Yes
CO/O <sub>2</sub> option	No	Yes
Data logging	No	Yes
Weight	5-7lb	1.5lb

Eliminating bar-holes, particularly zero read holes, means it takes less time to find and grade a leak, and there is a smaller chance of compromising the integrity of underground conduits for gas and other utilities.


When bar-holes are necessary, the Gas-Rover™ has an efficient routine for reliable and consistent results. Each bar-hole is uniformly pumped for a fixed time and both peak and sustained readings are displayed. Water can be avoided using the stop function and a water-block filter with an optional water stopper.

### Indoor Odor Complaints and Re-lights

The high sensitivity of the Gas-Rover™ makes it easy and fast to identify a problem. It also provides a reliable check of the property and service line after a re-light.

Carbon monoxide calls can be serviced with a Rover equipped with a CO sensor. When a flue check is indicated, the Gas-Rover™ can give CO readings on an air-free basis, if desired, and our specialized flue gas probe and filter eliminate interference from nitrogen oxides.

**The Gas-Rover™**



<b>Calibrated Ranges</b>	0 to 40,000ppm methane PPM Resolution
	0 to 100% vol methane 0.05% Resolution
<b>Sensors</b>	CH <sub>4</sub> (Catalytic) CO, O <sub>2</sub> (Electrochemical)
<b>Operating Modes</b>	Survey, Truck Survey, Monitor, Bar-Hole
<b>Calibration</b>	Docking and auto-cal Stores last 24 calibrations
<b>Data Storage</b>	Exposure and Bar-Hole Readings (2-3 mos typical)

# DATA-LINK™ PROCESSING SYSTEM

The Gas-Rover™ automatically collects calibration and readings data—exposure and bar-hole measurements. Typically, 2 to 3 months of readings can be stored before downloading or overwriting old data. Data from the last 24 calibrations, including readings before and after calibration, are stored in the detector.

Data can be downloaded through a USB or Bluetooth interface to a docking station or other computer. Data-Link™ software enables archiving, viewing, and printing reports. Major downloads are time and date stamped Readings and Exposure; Calibration; User, Unit and Office; and Maintenance.

The screenshot shows the 'Readings & Exposure Reports' menu with options for 'Readings Reports By Unit ID, Date, & Time' and 'Exposure Reports By Unit ID, Date, & Time'. Below these are two tables. The first table, 'Start Times & Dates of Stored Alarms', lists Unit ID, Mode, Date, Start Time, and various gas levels (LEL, -O2, +O2, CO, H2S, STEL, TWA). The second table, 'Date Range of Stored Readings', lists Unit ID, Serial No., First Date, and Last Date.

Unit ID	Mode	Date	Start Time	LEL	-O <sub>2</sub>	+O <sub>2</sub>	CO	H <sub>2</sub> S	STEL	TWA
4	T	7/13/2006	7:35:09 AM	Y						
5	M	7/13/2006	3:18:31 PM	Y						
5	M	7/13/2006	3:18:32 PM	Y						
5	M	7/13/2006	3:18:33 PM	Y						
5	M	7/13/2006	3:18:35 PM	Y						

Unit ID	Serial No.	First Date	Last Date
3	0411-054590	2/2/2005	8/29/2006
4	0628-300002	7/12/2006	7/13/2006
5	0628-300004	7/13/2006	7/14/2006
6	0630-300003	9/1/2006	9/5/2006
7	0628-300013	2/2/2005	8/28/2006

Sample Readings and Exposure Report

## Reading and Calibration Data Storage

- The most advanced, easy to use data storage on the market
- Readings are automatically stored with time and date stamp, operational mode and user ID
- Stores the last 24 calibrations with readings of calibration gas before and after calibration, sensor sensitivities and operational history
- Quick, easy download to any PC via USB port with DATA-LINK™ software

## Automatically Generated Reports

- DATA-LINK software includes 18 types of pre-formatted reports generated with the click of a button
- Reports can be viewed on-screen or are easily printed using the “Print Report” button
- Readings, Exposure (STEL and TWA), and Bar-Hole reports are available for any unit and date/time range
- Calibration and operation reports allow full review of units’ usage, calibration, and sensor sensitivity
- User, Unit and Office Reports make it easy to keep track of assigned users and offices

The screenshot shows a report titled 'Bar-Hole Readings by Date & Time for Unit: 13'. It includes a 'Print Report' button and a table with the following data:

Date	Time	Seq	Peak %GAS	Sustained %GAS	User	Location
12/19/2007	11:40:46 AM	2	0	0	Joe Jones	Norwood MA/111 Downey St
12/19/2007	11:41:23 AM	2	35.1	23.5	Joe Jones	Norwood MA/111 Downey St
12/19/2007	11:42:00 AM	2	22.2	14.2	Joe Jones	Norwood MA/111 Downey St
12/19/2007	11:42:42 AM	2	56.7	34.7	Joe Jones	Norwood MA/111 Downey St
12/19/2007	11:43:18 AM	2	16.3	2.4	Joe Jones	Norwood MA/111 Downey St

Bar-Holing report showing peak and sustained readings



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