

THE GAS-ROVER™ DOES IT ALL

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.

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. He can then begin bar-holing in the area where the Gas-Rover indicated the presence of gas. This will greatly reduce the number of 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 as well as increases productivity.

Rover vs. Conventional FI		
	FI	Rover
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 ₂ option	No	Yes
Data logging	No	Yes
Weight	5-7lb	1.5lb

Eliminating bar-holes, particularly zero read holes, increases safety since it takes less time to find and grade a leak. There is also less 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. Furthermore, a well-designed flue gas probe with a special filter provides CO readings free from interference from nitrogen oxides.

The Gas-Rover™



Calibrated Ranges	0 to 40,000ppm methane 1ppm Resolution 0 to 100% vol methane 0.05% Resolution
Sensors	CH ₄ (Catalytic) CO, O ₂ (Electrochemical)
Operating Modes	Survey, Truck Survey, Monitor, Bar-Hole
Calibration	Docking and auto-cal Stores last 24 calibrations
Data Storage	Exposure and Bar-Hole Readings (2-3 mos typical)

DATA-LINK™ PROCESSING SYSTEM

The Gas-Rover™ automatically collects calibration and readings data—both 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 on calibration gas before and after calibration, are stored in the detector.

Data can be downloaded through a USB interface to a docking station or other computer using a software package from Bascom-Turner for archiving, viewing, and compiling printed or electronic reports. The four major downloads are Readings and Exposure; Calibration; User, Unit and Office; and Maintenance. Concentration versus time plots can also be viewed or printed.

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:

Start Times & Dates of Stored Alarms							Date Range of Stored Readings							
Unit ID	Mode	Date	Start Time	LEL	-O ₂	+O ₂	CO	H ₂ S	STEL	TWA	Unit ID	Serial No.	First Date	Last Date
4	T	7/13/2006	7:35:09 AM	Y							3	0411-054590	2/2/2005	8/29/2006
5	M	7/13/2006	3:18:31 PM	Y							4	0628-300002	7/12/2006	7/13/2006
5	M	7/13/2006	3:18:32 PM	Y							5	0628-300004	7/13/2006	7/14/2006
5	M	7/13/2006	3:18:33 PM	Y							6	0630-300003	9/1/2006	9/5/2006
5	M	7/13/2006	3:18:35 PM	Y							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 optional 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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