

DATASHEET

TRIMBLE INTEGRATED LANDFILL GAS SOLUTION

KEY BENEFITS

Reduce landfill gas monitoring costs and operating expenses

Maximize technician's time for collecting samples

Streamline data management in the field and office

Receive rapid, accurate delineation of landfill gas levels

Improve documentation of remediation actions

Reduce human error and time spent completing paperwork

Increase accuracy of data collection
Improve safety

IMPROVE LANDFILL GAS SURFACE SAMPLING EFFICIENCY, ACCURACY AND SAFETY WITH TRIMBLE ENVIRONMENTAL SOLUTIONS

The drive to limit greenhouse gas emissions is resulting in increased environmental attention and additional regulatory requirements for the monitoring, documentation and reporting of landfill gas systems. Regulatory scrutiny of landfill gas surface monitoring is also increasing at solid waste landfills. California has implemented amendments to Rule 1150.1 that has increased the monitoring and compliance cost burden on landfill owners. The Trimble Integrated Landfill Gas solution can help control these rising costs by providing a more streamlined workflow for the environmental services professional, improving efficiency and reducing rework.

STREAMLINE WORKFLOW AND IMPROVE ACCURACY

The Trimble Integrated Landfill Gas solution for collecting landfill surface gas samples includes a SiteFID landfill gas monitor with a Flame Ionization Detector (FID) linked by Bluetooth wireless technology to a Nomad GPS-enabled hand-held computer.

Using the SiteFID, landfill gas samples can be analyzed in the field. The GPS location of sample results is recorded in real time during the field survey. The Nomad allows landfill gas monitoring data and positioning information to be logged in the field and then uploaded to compliance and reporting systems, streamlining surface landfill gas data collection, analysis and compliance reporting. This improved workflow increases the environmental professional's efficiency, allowing more area to be covered in a day with improved monitoring data quality assurance and the ability to accurately locate field sample collection points.

IMPROVE COMPLIANCE AND EFFICIENCY

The Integrated Landfill Gas solution provides landfill operators with an end-to-end solution that goes beyond simple data collection. Field sample monitoring results with associated GPS locations can be transferred from the Nomad to an Excel spreadsheet or loaded directly into back-office environmental compliance applications for analysis and reporting. The spatially located monitoring data can also be loaded to a CAD or GIS application for a graphical display of the sampling event results.

This improved landfill gas workflow increases quality assurance, makes documentation of regulatory compliance easier and streamlines regulatory compliance reporting. Data integration with company systems helps eliminate data entry errors and drastically reduces sample documentation and reporting labor costs. By integrating GPS locations of samples, accurate re-sampling of an exceedance location and the comparison of monitoring values between sampling events is faster and easier.

The SiteFID gas monitor meets, and in some cases exceeds, the instrumentation requirements for hydrocarbon detection in the U.S. EPA Method 21 and the CA Rule 1150.1 requirements for sampling and reporting Total Organic Carbon as methane. The Integrated Landfill Gas solution drives workflow improvements for the environmental professional, reducing rework and cost and increases productivity.



TRIMBLE INTEGRATED LANDFILL GAS SOLUTION

SiteFID HARDWARE SPECIFICATIONS (LIMITED*)

- Flame ionization detector
- Integrated Bluetooth®
- Re-light after flame-out from Trimble Nomad software
- Meets or exceeds US EPA Method 21 regulations for determination of volatile organic compound leaks
- Repeatability ±2%

Intrinsic Safety Class 1, Division 1, Groups A,B,C & D
Hydrogen operating time 70 hours
Hydrogen tank pressure80 psi
Hydrogen cylinder shipping classification UN3468
Can be shipped full of hydrogen by way of
air cargo (shipping documentation required).
Battery capacity 15 hours
Response time less than 3 seconds
Operating concentration range 0.1 ppm to 50,000 ppm
Operating temperature range 32 °F (0 °C) to 122 °F (50 °C)
Operating humidity range 0 to 100% (non-condensing)
Operator preset audible and visual alarm
FCC FCC Class B digital device, pursuant to Subpart B,
class B of Part15 of the FCC rules

PHYSICAL

Dimensions 13 in L x 12 in W x 3 in D
(33 cm x 30.5 cm x 7 cm)
Weight 11 lb (5 kg)

TRIMBLE NOMAD SPECIFICATIONS

- Windows Mobile 6.1 (Professional in WWAN models; Classic in all other models)
- Marvell 806 MHz XScale processor
- 128 MB DDR SDRAM
- 512 MB to 2 GB non-volatile Flash storage OS/user shared space (4 GB SD card included with camera models)
- Integrated GPS (SiRFstarIII, WAAS / SBAS capable, SiRFInstantFixII)
- GPS accuracy 2–4 m SBAS corrected¹
- Secure Digital (SD/SDHC) slot
- Integrated Bluetooth 2.0
- Full VGA display, sunlight-readable color TFT
- 15-hour battery life (in active use with default settings)
- Touchscreen
- Keypad backlight for night use
- 12-month limited warranty

*For complete specifications for the Trimble SiteFID and Nomad hardware units, please see their respective specification sheets available upon request.

SiteFID MONITOR SOFTWARE FEATURES

- Trimble SiteFID Monitor Software
- Load georeferenced landfill CAD or GIS base maps or site aerial photos to the Nomad handheld computer
- Provides real-time position location on facility base map
- Instantaneously logs integrated monitoring readings that include sample locations
- Provides CSV download to Excel for upload to compliance monitoring systems, CAD or GIS applications

1. 2–4 m (50%–95%) accuracy determined using Horizontal Root Mean Squared method – Open Sky.

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Specifications subject to change without notice



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