



**MAYBACH**  
OIL & GAS  
076 630 0497



# MAYBACH

OIL & GAS

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## FUEL MANAGEMENT PROFILE



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Maybach Oil & Gas presents a comprehensive fuel management system designed for integration into new or preexisting non-commercial fuel storage or dispensing setups. It caters to both stationary tanks and mobile bowsers, facilitating meticulous oversight and regulation of fuel receipts as well as diverse site dispensing activities. The system provides real-time residual tank levels, visible on both the controller and the web portal following each occurrence. This data is accessible from any computer or mobile device for your convenience.



### Our product range includes:

- 50ppm sulphur diesel and other diesel grades
- Petrol
- Jet fuel
- Illuminating paraffin
- Lubricating oil & industrial oils
- Bitumen
- LPG (liquefied petroleum gas)

## MANAGEMENT MADE EASY

With a wealth of experience spanning more than 14 years in telemetry and IT systems, we take pride in presenting this South African product, which guarantees affordability and effortless integration with both existing and newly established infrastructure. In the current context, meticulous management and precise accounting for every liter received and dispensed are essential for ensuring sustainable profitability. Considering the prevailing prices of kerosene fuels, you cannot afford to overlook this opportunity.

# INSTALLATION

You've taken the proactive step of setting up a cutting-edge fuel depot on your premises, and now you're seeking to implement a fuel monitoring system. It's important to opt for a solution that seamlessly integrates with your existing hardware.

The Maybach Oil & Gas system offers exactly that: an integration that brings your remote site's fuel data right to your office. Even if you don't have a dedicated office space, you can easily access the information on your cell phone and receive live notifications of fuel events straight to your device.

The adaptability of the Maybach Oil & Gas solution makes it well-suited for various applications, including solar power setups and smaller tanks featuring gravity feed dispensing. This ensures that your fuel management is efficient and responsive to your specific needs.

## 01 LEVEL SENSOR

The key fuel monitoring component consists of a level sensor installed on your actual fuel storage tanks or bowlers. This sensor constantly updates the live levels and captures any alterations, which are then consistently logged on the server. Notably, even a minute change of one liter in a 9000-liter capacity can be accurately recorded.

## 02 MEASUREMENT

If feasible, we can seamlessly integrate with your current flow meter pulse system. Alternatively, we can offer you a trustworthy and calibrated alternative that accurately measures the flow and volume dispensed during each individual event.

## 03 CONTROL

When it comes to cost savings, meticulous control is essential to track every liter dispensed. It's crucial to be aware of where the fuel was issued, by whom, and to record the specific asset or vehicle that received the fuel. Our services extend further by providing fleet management platforms that enable you to generate reports and compare fuel volumes received by the same vehicle over time. This comprehensive approach ensures efficient fuel management and optimization of resources.

## 04 SECURE PSU & CONTROLLER

Contained within a secure aluminum box enclosure is a power supply unit equipped with a backup battery. This enclosure accommodates the LCD screen and tag receptacle, providing you with the reassurance of backup power and uninterrupted fuel monitoring even during a power outage.





### FUEL DISPENSING

Fuel controller is designed to exhibit both the present fuel volume being dispensed at the pump and the remaining fuel quantity in each storage tank. Through data uploading to the cloud, this vital information becomes promptly accessible on your computer in a matter of seconds.



### FUEL LEVELS

The Maybach Oil & Gas controller has the capacity to monitor up to 3 fuel tanks simultaneously. The scrolling display provides real-time reports on the current level in each tank. A convenient summed value and percentage is consistently displayed for quick reference.



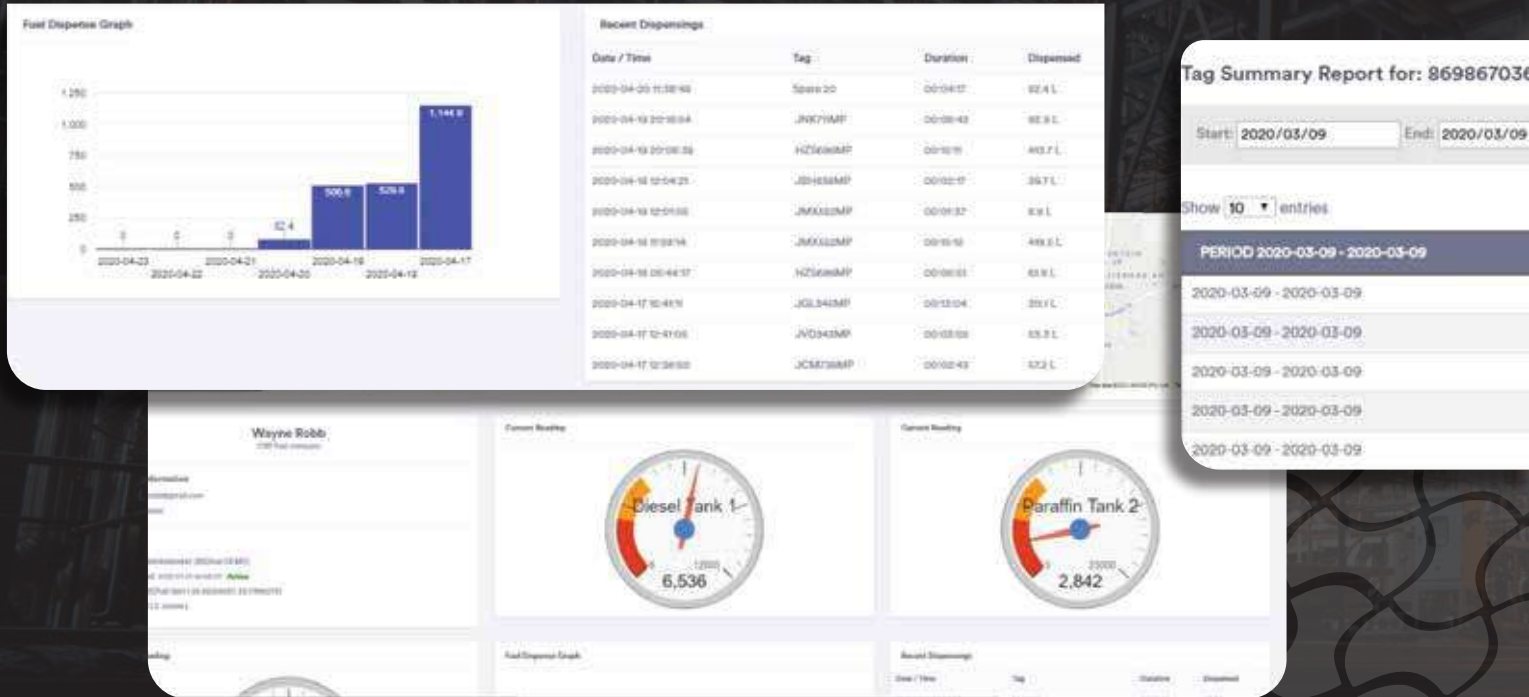
### SECURE DISPENSING

The system streamlines control and enhances security by exclusively recognizing authorized button tags and users. The process of allocating up to 1400 distinct tag numbers is made simple through our USB-powered Tag2Text readers.



# EASY REPORTING

From the on line software, a general dashboard overview of user and controller information is available below a map of the current live position of the controller. A controller can monitor up to three storage tanks with a simple representation of the live liquid level in each tank. The software platform offers an extensive range of services and reports to manage and control your liquid assets. Reports included are Tag Specific Reports, Tag Summary Reports, Fuel Add/Drop Report, Dispense Report, Fuel Level Report, Controller Health Report and many more.



# MANAGEMENT TOOLS

To fully utilise a consumer solution with extensive reporting structures it needs to effectively integrate into your existing companies IT structure. Maybach Oil & Gas has a full suite API to integrate into existing systems. We have the experience and services to assist with data availability and access to the right level of audience.



## MULTI-TIER SETUP

Setting up companies and assigning users with various levels of access and information has been made simple.



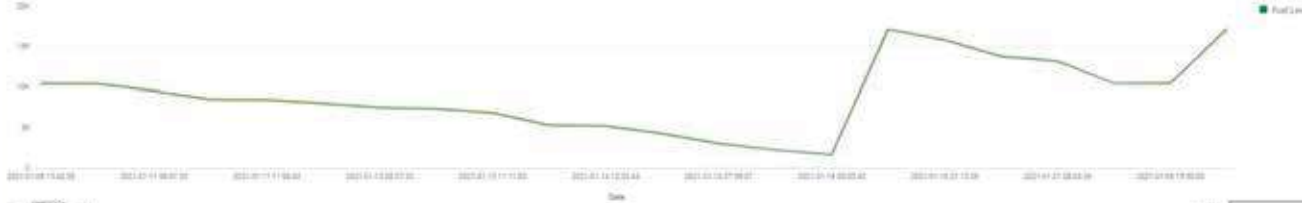
## REMOTE DEVICE SETUP

All setting and adjustments can be handled remotely by the administrator. Instantly add or delete user button tags. Remotely lock or unlock device in emergencies.

Fuel Add / Drop Report: Mabopane Movers

Start: 21/01/2021 End: 21/01/2021 Generate Report Export to Excel Export to PDF

Fuel Level Change  
500 Litres (Approximate Range)



PERIOD	DEVICE	EVENT	FUEL L1	FUEL L2	FUEL L3	TOTAL L3
2021-01-21 06:00 - 2021-01-21 07:00						
2021-01-21 07:00 - 2021-01-21 08:00						
2021-01-21 08:00 - 2021-01-21 09:00						
2021-01-21 09:00 - 2021-01-21 10:00						
2021-01-21 10:00 - 2021-01-21 11:00						
2021-01-21 11:00 - 2021-01-21 12:00						
2021-01-21 12:00 - 2021-01-21 13:00						
2021-01-21 13:00 - 2021-01-21 14:00						
2021-01-21 14:00 - 2021-01-21 15:00						
2021-01-21 15:00 - 2021-01-21 16:00						
2021-01-21 16:00 - 2021-01-21 17:00						
2021-01-21 17:00 - 2021-01-21 18:00						

11701

Generate Report Export to Excel Export to PDF

Search:

TAG	DISPENSE LITER	PUMP TIME
3700001C618E5001 (ACTIVE) - FK318HVGP	233 L	00:05:24
6100001C5320F801 (ACTIVE) - BP548TGP	163.7 L	00:03:43
7400001C5154D801 (ACTIVE) - BL 85 MF GP	10.1 L	00:01:10
3300001C8E83801 (ACTIVE) - ZLV 291 GP	10.9 L	00:01:40
300001C50D4FF01 (ACTIVE) - FL86BHGP	444.7 L	00:08:49

Search:

PERIOD 2020-06-02 - 2020-06-04	TAG	LOCATION	OPEN	CLOSE	DISPENSE LITER	PUMP TIME	FLS1	FLS2	FLS3	FLS TOTAL
2020-06-02 12:46:46	Blue Boy Refiler	Mitrand Depot	12:46:40	12:46:46	0 L	00:00:06	294 L	130000 L	3440 L	133734
2020-06-02 12:46:56	Blue Boy Refiler	Mitrand Depot	12:46:52	12:46:56	0 L	00:00:04	294 L	130000 L	3440 L	133734
2020-06-02 15:32:03	88000088357E601 (ACTIVE) NOT SET	Mitrand Depot	15:29:43	15:32:03	29.6 L	00:02:26	294 L	130000 L	3440 L	133734
2020-06-04 11:44:36	F0F0F0F (ACTIVE) NOT SET	Mitrand Depot	11:43:37	11:44:36	0 L	00:00:58	294 L	130000 L	3440 L	133734
2020-06-04 13:19:38	88000088357E601 (ACTIVE) NOT SET	Mitrand Depot	13:18:09	13:19:38	81 L	00:01:29	294 L	130000 L	3440 L	133734
2020-06-04 13:30:09	88000088357E601 (ACTIVE)	Mitrand Depot	13:19:43	13:30:09	0 L	00:00:27	294 L	130000 L	3440 L	133734

# INSTANT NOTIFICATION

The Maybach Oil & Gas controller can be setup to SMS nominated personnel with notifications specific to, fuel drained from main tanks; fuel pumped outside of authorised time frames; fuel dispensed in excess of your chosen maximum volume; low fuel level alarms; tank sensor cable detection; water detection in tanks and more.



# HOW IT WORKS

## BLE Vehicle ID

Bluetooth identification

Introducing Bluetooth Connectivity for Your Vehicle. When your vehicle approaches the controller, it instantly becomes visible and links up to the controller by connecting as the active filling device.

## Cloud Server

Saved to the cloud

All data is refreshed every few minutes and promptly transmitted to the server, swiftly becoming accessible on our online portal. Receive your alarm notifications directly on your phone and gain immediate access to your site history.

GSM Comms or WiFi Comms

## MAYBACH Controller

Main fuel controller

The Maybach Controller features a remotely-adjustable LCD display, which encompasses discreet non-display settings too. The adjustable brightness ensures effortless viewing from all angles.

## Remote Access

Reports and control

Whether you're looking to view the most recent fuel events or retrieve historical reports, obtain information about current fuel levels or receive a live health report summary from all your sites, you can effortlessly do so from the comfort of your home, office or offsite location.

## Live Levels

Tank level sensor

Our Tank Level Sensor presents real-time fuel levels on both the controller and the web portal. It concurrently monitors fuel additions and reductions with precision, offering accurate alerts for fuel theft and alarms for low levels.

BLE fuel probes are also available

## Hrs/Kms Capture

Keypad input

You now have the capability to monitor the machine's usage hours since the last fill and the kilometers traveled from the previous fill. This can be achieved by inputting the current hours or kilometers on the display using the newly integrated keypad.

## Pump Control

Solenoid switch

Regulate fuel flow from the pump using an electronically controlled valve and/or a pump motor contactor. Both mechanisms effectively deter unauthorized dispensing through the implementation of ID tag restrictions.

## Reading Flow

Flow meter

Precisely dispensed volumes can be accurately metered through a variety of different flow meters.



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# FUEL MANAGEMENT ACROSS ALL INDUSTRIES

## BOOSTING EFFICIENCY AND COST SAVINGS ACROSS VARIOUS BUSINESS SECTORS

At Maybach Oil & Gas, we offer versatile fuel management solutions designed to meet the unique needs of various industries. Our innovative approach, with regards to mobile fuel bowsers, diesel generators, bulk fuel tanks and flow bins, enables businesses to streamline fuel management processes, optimize consumption, and achieve significant cost savings. Our fuel management system can benefit multiple industries with wide ranging applications.



**Construction:** Fuel stands as a vital resource within the construction industry, energizing heavy machinery and equipment. Our system empowers construction companies to effectively oversee on-site fuel distribution, eradicating the necessity for time-intensive journeys to external fuel stations and mitigating project delays.



**Mining and Extraction Industries:** Fuel assumes a pivotal role in mining and extraction operations, where heavy machinery operates incessantly. Our fuel management solution guarantees a steady fuel supply, enhances equipment up-time, and optimizes fuel consumption, culminating in amplified productivity and heightened profitability.



**Diesel Generators:** Diesel generators are widely employed across a spectrum of industries, encompassing healthcare facilities, data centers, construction sites, and remote locations, all reliant on a consistent power supply. Our fuel management system facilitates seamless monitoring of diesel generator fuel levels, providing real-time data on consumption and enabling timely refueling interventions.



**Agriculture:** The agricultural sector leans extensively on fuel to power machinery essential for crop production, irrigation, and transportation. Our solution empowers farmers to monitor fuel consumption, curbing wastage and elevating operational efficiency. This ensures streamlined agricultural processes and the optimization of profitability.



**Forestry:** Fuel plays a pivotal role in forestry operations by energizing machinery and equipment. Our fuel management system assists manufacturers in fine-tuning fuel consumption, curtailing expenses, and augmenting productivity. This results in elevated production output and heightened competitiveness.



#### Tag Summary Consumption Report

Start: 2024-01-01 End: 2024-01-31 Columns: Selection: All, Selection: Generate Report Report to Excel Report to PDF

Showing 1 to 10 of 70 entries

PERIOD	ASSET TAG	TAG ALIAS	DISPENSE LITER	FUEL TIME	EM DIFFERENCE	EM / L	HOURS DIFFERENCE	HOURS / L, H
2024-01-01 - 2024-01-01	20200004MAGZC	20200004MAGZC	283.1	00:14:2	1331	0.52	0	1.917
2024-01-01 - 2024-01-01	20200004MAGZC	20200004MAGZC	75.1	00:00:0	884	1.92	0	0.518
2024-01-01 - 2024-01-01	20200004MAGZC	20200004MAGZC	422.1	00:04:4	718	0.28	0	3.571
2024-01-01 - 2024-01-01	20200004MAGZC	20200004MAGZC	271.6	00:00:0	884	1.92	0	0.518
2024-01-01 - 2024-01-01	20200004MAGZC	20200004MAGZC	499.1	00:00:0	884	0.28	0	3.571
2024-01-01 - 2024-01-01	20200004MAGZC	20200004MAGZC	122.1	00:07:0	884	0.28	0	3.571
2024-01-01 - 2024-01-01	20200004MAGZC	20200004MAGZC	162.1	00:07:0	884	0.28	0	3.571
2024-01-01 - 2024-01-01	20200004MAGZC	20200004MAGZC	188.1	00:00:0	884	1.92	0	0.518
2024-01-01 - 2024-01-01	20200004MAGZC	20200004MAGZC	417.1	00:05:0	884	0.28	0	3.571
2024-01-01 - 2024-01-01	20200004MAGZC	20200004MAGZC	271.6	00:00:0	884	1.92	0	0.518

Showing 1 to 10 of 70 entries

# EFFICIENT FUEL CONSUMPTION MONITORING THROUGH TAGGING FOR OPTIMAL EFFICIENCY

Our fuel management system employs a tagging mechanism to adeptly oversee fuel usage across diverse devices. Each device is furnished with a distinctive tag that enables precise monitoring of fuel consumption. During refueling, our system enables users to input the present kilometer reading and operating hours of the device. Leveraging this data, the system autonomously computes the fuel consumption between refills.



## FLOW BINS

Flow bins integrated with the Maybach Oil & Gas management solution provide convenience for a multitude of fixed and mobile applications, delivering real-time updates on current tank volumes at 30-second intervals. The system also offers reporting features for fuel theft and unauthorized dispensing, with notifications sent via SMS and email. All dispensing data and activities are meticulously logged on the cloud server, affording a hassle-free, precise audit trail and ensuring accurate accounting of this valuable liquid asset.



### LIVE MONITORING

Real-time information and activities are swiftly transmitted within seconds through your selected GSM network, complemented by cost-effective international roaming choices for seamless connectivity.



### CURRENT GPS LOCATION

Our multi-constellation GNSS receiver furnishes precise positional data accompanied by real-time timestamping.



### MOBILE FRIENDLY

Our web-based application is exceptionally user-friendly and seamlessly adaptable for use on your computer, tablet, and smartphone.



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## MOBILE BOWSER SOLUTION

Flow bins integrated with the Maybach Oil & Gas management solution provide convenience for a multitude of fixed and mobile applications, delivering real-time updates on current tank volumes at 30-second intervals. The system also offers reporting features for fuel theft and unauthorized dispensing, with notifications sent via SMS and email. All dispensing data and activities are meticulously logged on the cloud server, affording a hassle-free, precise audit trail and ensuring accurate accounting of this valuable liquid asset.



**FUEL MOBILITY**



**FUEL TRANSACTION RECORDING**

Maybach oil & Gas mobile bowser is a valuable tool for efficiently dispensing fuel to remote sites or vehicles while also providing accurate tracking and management capabilities. With its ability to monitor and record fuel transactions, it offers businesses a way to optimise their fuel usage and minimised. The feature of comparing data between two Maybach Oil & Gas system in particularly useful for identifying any discrepancies or irregularities in fuel usage, which can help further streamline operations and prevent fuel loss.

The Maybach Oil & Gas Mobile bowser addresses a critical need in industries that rely on fuel transportation and management, offering a comprehensive solution for tracking, controlling and managing fuel usage effectively.

# BULK FUEL MONITORING



The integration of optic sensors into fuel meters by Maybach Oil & Gas simplifies the control and management of fuel transactions, leading to increased efficiency and convenience for businesses. By providing remote access to fuel readings, this solution offers enhanced operational transparency, allowing stakeholders to monitor fuel usage in real time for any location.

with better access to accurate and real time data on fuel transaction, business can make more informed decisions, regarding fuel usage and inventory management. This enables them to optimise their operations, reduce fuel losses, and ensure adequate supply levels to meet demand.

Overall, this innovative solution by Maybach Oil & Gas facilitates better control, management, and decision-making related to fuel operations, ultimately benefiting businesses in terms of efficiency, convenience, and cost-effectiveness.





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