آفاق الرصد
AFAQ AL RASD

FUEL MANAGEMENT

Smart fuel management

Monitor consumption, detect refuels and unexpected drops, and turn fuel data into decisions.



English edition · 2026

OVERVIEW

Fuel is your largest controllable cost

Fuel invoices alone cannot show actual consumption, why costs rise, or whether fuel is being lost. Afaq's fuel solution reads data from the vehicle or the tank, links it to location, distance, engine hours and driver, and turns it into reports, alerts and efficiency indicators in Rasd Fleet.

What the solution delivers

- Fuel level and consumption per vehicle
- Refuel events with time and location
- Unexpected drops linked to place and time
- Idling time and the fuel it burns
- Consumption per 100 km and per engine hour
- Comparison between vehicles and drivers
- Fuel card and purchase reconciliation
- Optional ERP integration via API

The challenges we address

Fuel loss or theft

Unexpected drops in level, with no record of where or when.

Mismatched refuels

Purchased quantity differs from what reached the tank.

High consumption

Some vehicles use far more than similar ones.

Idling

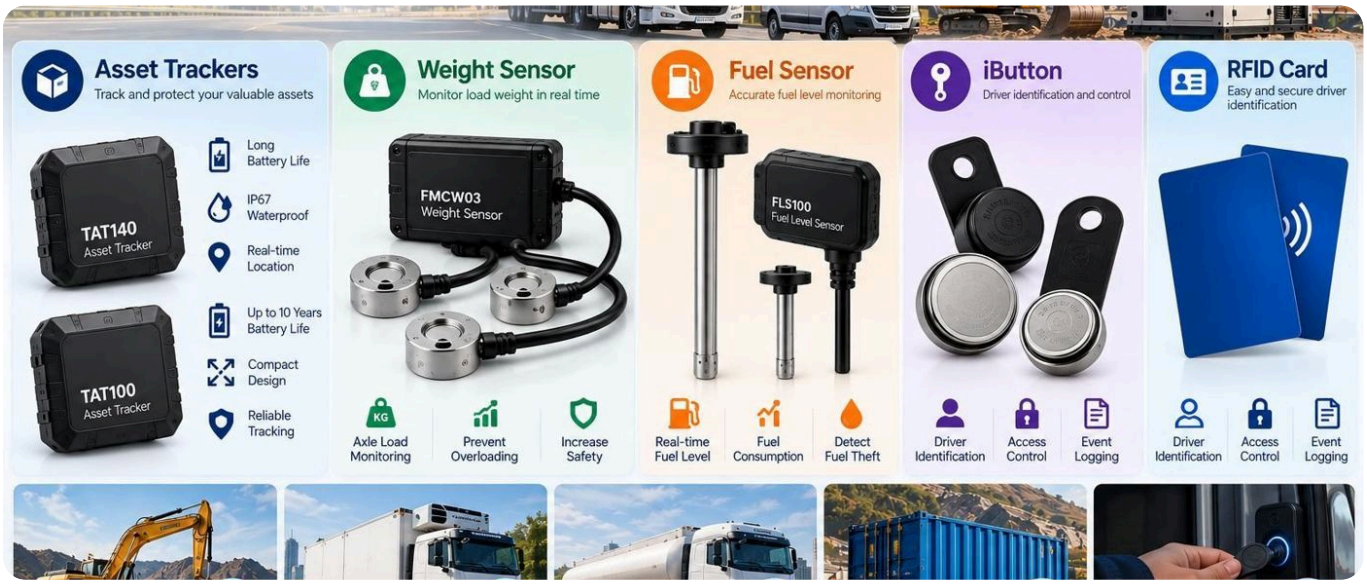
Engines running while waiting or loading.

Driver differences

Consumption varies widely on the same routes.

Manual records

Late or incomplete logs instead of automatic readings.



HOW IT WORKS

From the tank to actionable insight

1

Capture

Read fuel data from CAN Bus, OBD-II or a tank sensor.

2

Transmit

The tracker sends readings over 4G; data is buffered offline.

3

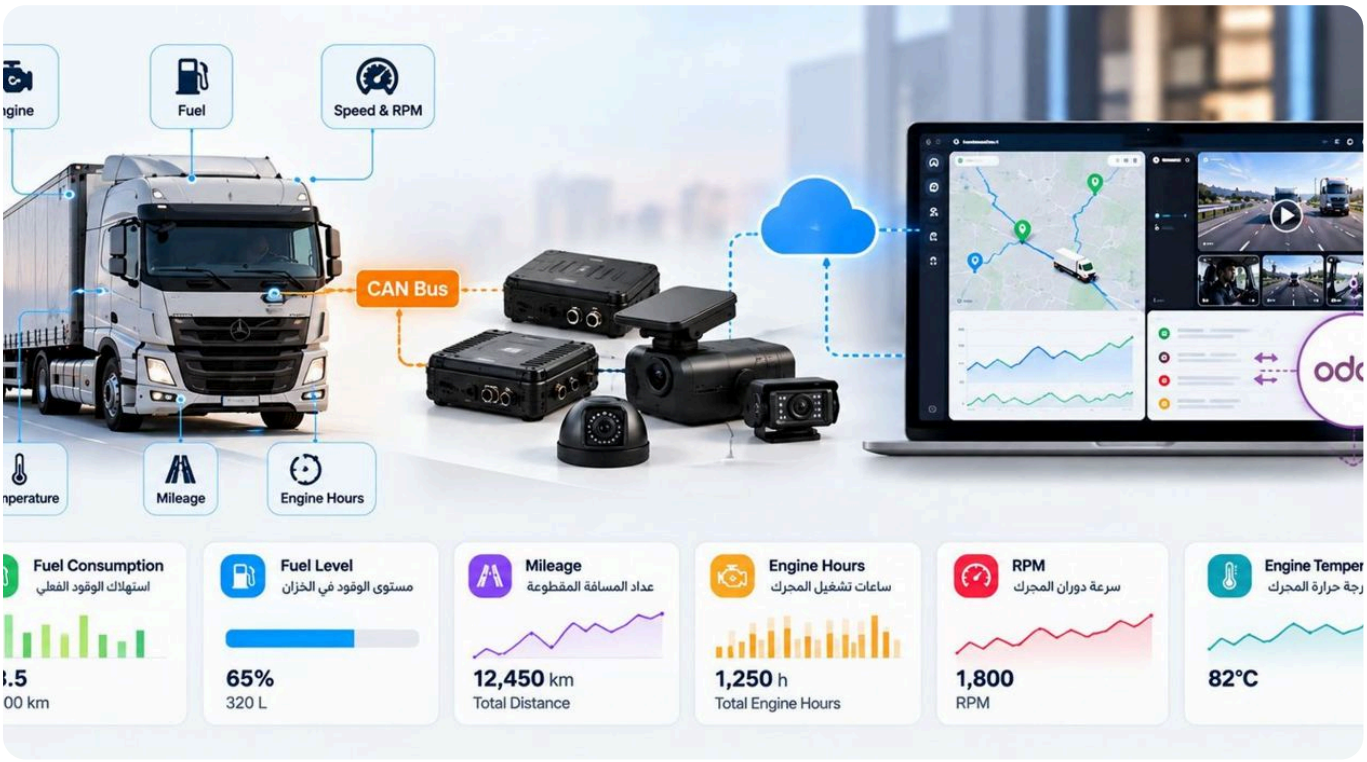
Analyse

Rasd Fleet calculates consumption, refuels and drops.

4

Act

Alerts and reports guide management decisions.



Key capabilities

CAN Bus (FMS/J1939)

Fuel level, total fuel used and consumption rate from the vehicle network, where supported.

OBD-II

Quick installation on light vehicles, vans and rental fleets.

Fuel level sensor

Direct, independent measurement in the tank, best for trucks and equipment.

Calibration

Tank calibration by shape and volume for accurate readings.

Drop and refuel detection

Each event linked to location, time and vehicle status.

Fuel cards

Import card transactions and reconcile them with refuels.

DATA READING METHODS

The right method for each vehicle

CAN Bus / OBD-II

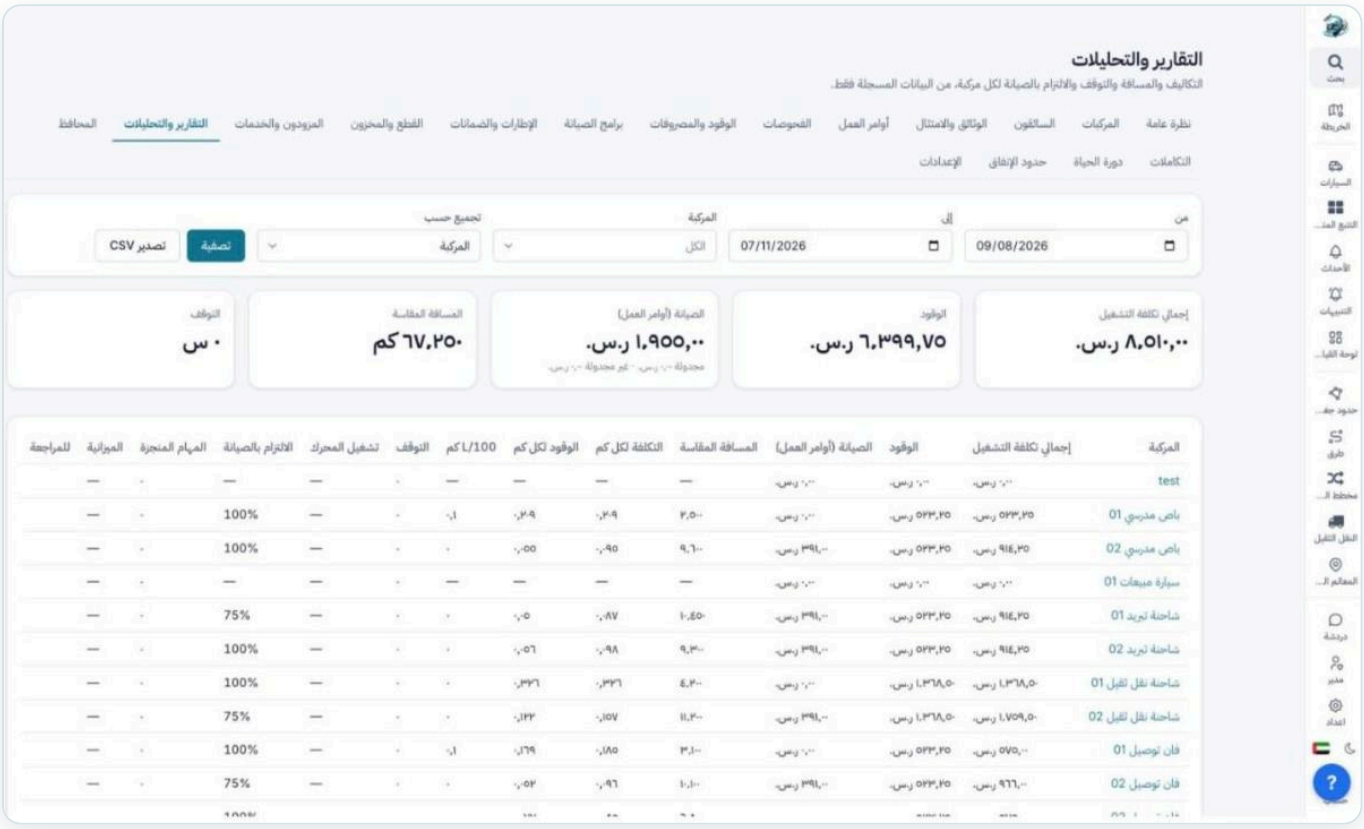
The tracker reads the vehicle's own electronics in read-only mode. No sensor in the tank is required.

- Fuel level as reported by the vehicle
- Total fuel used and instant rate, where available
- Distance, engine hours, RPM and speed
- Best for modern trucks, buses and light vehicles

Fuel level sensor (FLS)

A capacitive or ultrasonic sensor measures the actual level in the tank, independently of the vehicle electronics.

- Higher accuracy for drop detection
- Works on equipment without CAN data
- Calibrated per tank shape and size
- Best when theft prevention is a priority



Cost per vehicle in Rasd Fleet: fuel, maintenance, distance and cost per km.

> CAN fuel readings may rely on the dashboard gauge signal and may not be precise enough to detect small drops; a tank sensor is recommended where loss detection matters.

ON RASD FLEET

From data to action

Fuel data becomes useful when it is linked to the vehicle, the trip and the driver. Rasd Fleet alerts on suspicious drops and lets managers ask the AI assistant about consumption in plain language.

1

Alert on the platform

The event appears on the map and in the log with vehicle, time and location.

2

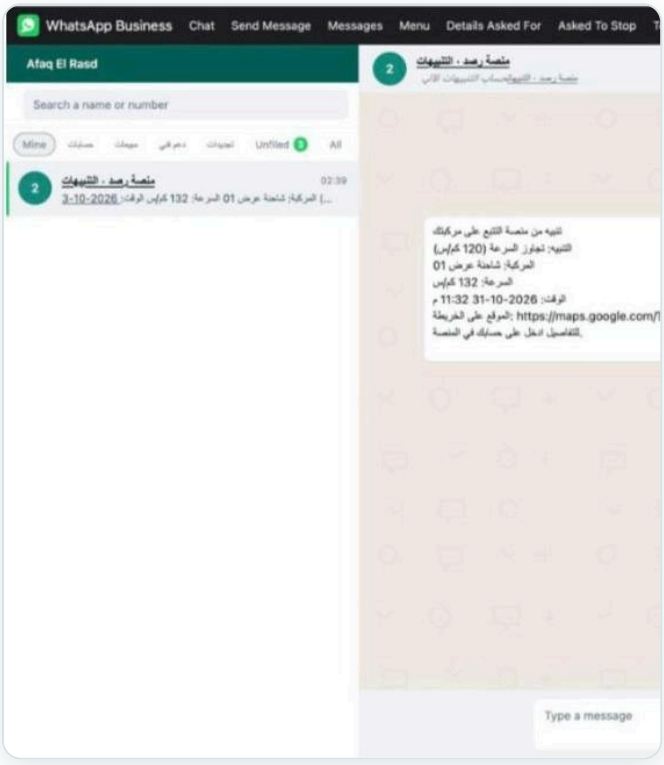
WhatsApp to the supervisor

Alert type, vehicle, value and a map link, on the channel your team already uses.

3

Automated voice call

Critical alerts also ring the supervisor's phone and read the alert aloud.



An alert delivered on WhatsApp Business.



The RASD AI assistant next to the live map: ask in Arabic or English.

Reports you can use

Consumption

Litres, L/100 km and L/hour per vehicle and period.

Refuels & drops

Every event with time, place and quantity.

Idling

Idle time and estimated fuel wasted.

WHO IT IS FOR

For every fleet that buys fuel

Transport & logistics
Long-haul and distribution trucks.

Construction & equipment
Machines with engine-hour based consumption.

Generators
Run hours and fuel level for stationary units.

Buses
School and staff transport fleets.

Rental fleets
Fuel level at check-out and return.

Government fleets
Transparent, auditable fuel records.

Why Afaq Alrasd Aldhki

- We start from your operation, not from a product list
- We select compatible devices and sensors for every vehicle
- Certified installation, calibration and platform setup
- Alerts and reports configured around your procedures
- Rasd Fleet hosted in Saudi Arabia, in Arabic and English
- Multi-AI: assistant, WhatsApp AI and AI voice agent
- Optional one-way integration with Odoo ERP
- Technical support with clear response targets



Talk to our team

Tell us your vehicle and equipment types and how you buy fuel today, and we will recommend the right reading method and sensors.

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> Available data and functions depend on the vehicle, the installed device and sensors, network coverage and platform configuration. Compatibility is confirmed before implementation. Screenshots are from a demo fleet.