

Advanced Monitoring and Tracking Of Fuel Distribution

Click & Find Monitoring and
Tracking Solution



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DFS *Worldwide Brands*

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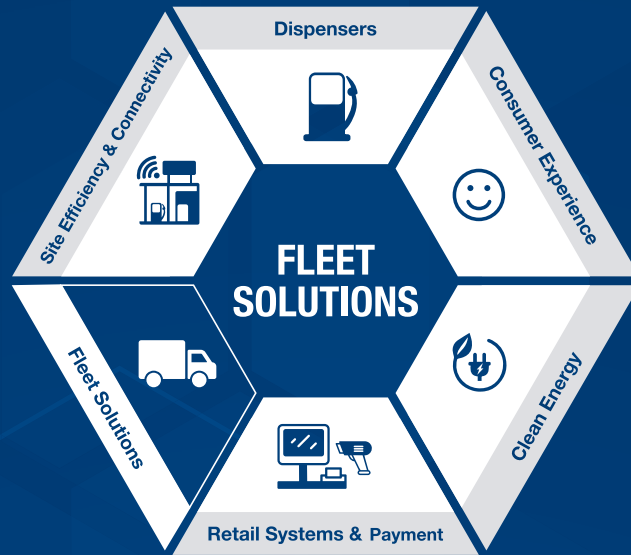
Bulloch
TECHNOLOGIES

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fairbanks

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Take Control of Your Fuel Operations

Introducing the Click & Find Monitoring and Tracking Solution from Dover Fueling Solutions® (DFS), a cutting-edge fuel transportation solution that enables fuel retailers to take full control of their fuel distribution, while eliminating the risk of mistreatment and theft during the transportation phase.

This comprehensive solution, in conjunction with ProGauge magnetostrictive probe technology, allows retailers to monitor loading and unloading activities and ensure accurate fuel deliveries, while also receiving priority alarms if any abnormalities should occur in transit. It is also a solution that helps retailers to streamline transport operations with various optional services.

The integrated DFS and Click & Find solution will provide unparalleled security and reassurance to fuel retailers during transportation. Stay calm, collected and in control of your fuel transportation with the Click & Find Monitoring and Tracking Solution.

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Giving You Control Where You Need It Most

At DFS, we understand that being able to ensure every drop of fuel loaded onto road tankers reaches its destination, in the precise quantity and quality, isn't always easy. Imagine if you could control your fuel stocks while in transit from one location to another – including during loading and unloading? Well, now you can, with the Click & Find Monitoring and Tracking Solution from DFS.

The Fuel Monitoring for Fuel Tankers (FMFT) is the Volume-Monitoring and Real-Time Location Tracking System on all tankers or Bulk Road Vehicles (BRVs), which transport petroleum products. This unique solution ensures the efficient transportation of fuel throughout a specific territory.

Accurately Measure Fuel Volume

in multi-compartment fuel road tankers

Product Measurement

Capable of measuring product quality, temperature and density (depending on sensors installed)

Track Vehicle Location

in real-time

Review Vehicle Movement

in maps with animated view

Geofencing with Alarms

to make sure that fuel transit and operations take place in approved routes and areas

Complete Reporting Overview

Measure Distance Travelled

Click & Find Monitoring and Tracking Solution

The System

The Click & Find Monitoring and Tracking Solution consists of the following components:

- **Click & Find Black Box** for the processing and real-time transmission of georeferenced data to the T3 remote control platform
- **Digital Triaxial Inclinometer / Accelerometer** with high precision sampling frequency
- **ProGauge magnetostrictive probes** (digital level measurement) installed inside Still Pipes
- **Safe Intelligent Video Camera** to detect, continuously and automatically, if the driver is present during the fuel unloading for a quick reaction to emergency events such as product spilling or flash fires
- **Truck Can-BUS interface** to acquire fleet management data, including mileage, engine hours, reservoir fuel level, and fuel consumption
- **Fiber Optic Cable** for tamper-resistant solution to certify remotely that every sensor or other installed hardware hasn't been dismantled, displaced or hacked
- **Flow Sensors** that detect fuel motion in the pipes

Driver Profile

The driver profile menu contains, for each driver, a summary of the driving patterns of drivers who, in addition to having an impact on driving safety, could be performed with the intention of trying to confuse the anti-fraud system.

The behaviors examined concern:

- Braking and sudden acceleration
- Sudden change in suspension
- Stops with significant noise indices

The Logic

The Click & Find Monitoring and Tracking Solution has logic for detecting the tapping from the discharge pipe. As such, the flow sensors are placed inside the pipe to detect:

- **the presence of residual product in the pipe** - if during the vehicles running phase, there is progressive activation / deactivation of the flow sensor
- **tapping from the pipe** - if during a stop, there is an activation/deactivation of the flow sensor, which is not associated with a lowering of the product level in the compartment, an alarm message will be released from the pipeline

Alarms

The Click & Find Monitoring and Tracking Solution allows the generation of the following alarms:

- Subtraction of product from the delivery pipe
- Presence of residual product in the delivery pipe
- Subtraction of product from the compartment through the delivery pipe
- Unauthorized introduction of product in the compartment from the manhole
- Presence of residual product in the compartment





1. Travel Orders and Planning

- Georeferenced personal data
- Automatic trip optimization
- Editing on travel maps (drap & drop)
- Constraints for delivery times
- Constraints for vehicle type and size
- Compartment management
- Management of product incompatibilities
- Customizations

2. Management of Entrances and Exits

- Loading bay presets from the web
- Preset loading bays from planning
- Badge or code authentication upon loading
- Unlocking loading plans on multiple bays
- Actual quantities and temperatures
- Management of registered operator entrances
- Level probe cloud management
- Customizations

3. Proof of Delivery

- Quantity and temperature of delivery
- Georeferencing
- Check compliance with travel plan
- Electronic head anti-fraud control
- Control of bottom and exhaust valves
- Control of levels in the tanker
- Management of driving hours and driver work
- Consumption control
- Customizations

