



BROCHURE 2024

Fuel Explorer[®]

**ONLINE FUEL LEVEL MONITORING
SYSTEM IN MINGING DUMPING TRUCKS**

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WHAT IS FUEL EXPLORER®?

Fuel Explorer Platform is a **disruptive and innovative solution able to perform online monitoring of the mine haul truck's fuel level at any time.** Its main objective is to **optimize the fuel use and consumption.**

One of the most important characteristics of the system is its **NON-INVASIVE ULTRASONIC SENSOR.**

Fuel Explorer® allows the optimization of the mine haul truck operation by **reducing the number of unnecessary/out of time refueling trips, achieving a maximum operational use of the equipment.** Our experience shows that the corresponding KPI has had significant improvements in the mine's productivity.

TONS PER HOUR (T/h) INCREASE

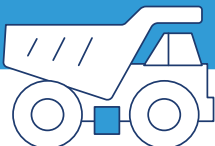
Do the fact that Fuel Explorer® is able to **increase the Productive Operative Time by reducing the number of refueling trips**, this has an equivalent impact in the number of Tons moved per hour.

The productivity increase achieved by Fuel Explorer® can be traduced in extra hauling capacity given by additional trucks to the operation. This fact is proportional to the mining operation's size.

FLEXIBLE OPERATING CONTINUITY MODEL

Our post-sale support considers the execution of **mid- and long-term maintenance contracts**, in order to assure Fuel Explorer's operating continuity in the mining site.

As part of the post-sale service, **we consider platform upgrades that integrates all tools and functionalities generated by the interaction with AIKO's ecosystem customers.**





NON-INVASIVE

Fuel Explorer's sensor installation **does not modify the fuel tank in any way.** The reason is that we glue it with specialized industrial adhesives.

Our technology

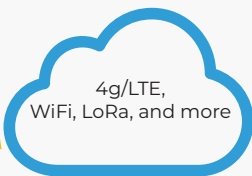
AIKO® with the aim of ensuring the excellence of our products and services, **integrates a work ethic which includes good manufacturing practices** as well as a high quality of the individual components of its solutions.

Fuel Sensor

- Real time inclination measurement of the road.
- Remote firmware updates.
- Temperature measurement of the base of the fuel tank.



Auxiliary C

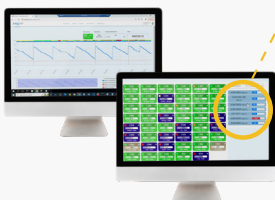


Flexible network connectivity

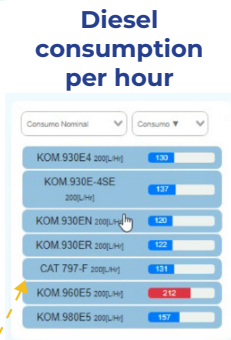


**Optional configurable features*

I. Hardware installed in the haul truck



II. Fuel Explorer's server software



III. Data sharing with other ecosystem softwares

- Significant **increase in the use** of the mine haul truck fleet through fueling optimization.
- **Mining plan acceleration** due to the increase of transported tons per hour, as consequence of improved productivity.
- **Less** than 6 months ROI.
- **Non-invasive** monitoring technology.
- **Integration** with existing fleet control systems.
- Fleet supply **status** visibility.
- **Dispatch-shifts Efficiency statistics** in the cases where the refueling is controlled manually by the mining dispatch.
- Operational analytical **statistics**.
- Instantaneous **fuel consumption calculation** for each truck of the fleet.
- Allows **auditing** of fuel filling.
- Critical fuel level **configurable alarms**.
- **Historical** data audit.
- **Quick Hardware installation** and enablement.
- Route Truck-detention main causes **identification**.
- Fuel Explorer's hardware malfunction **does not affect the mine haul truck operativity**.
- **Software connection capability** with analytic tools in order to integrate the data into other mining platforms.

Let's talk

**TOGETHER WE WILL MAKE YOUR
IDEAS A REALITY**