# FMA
FUEL MANAGEMENT AFRICA

"Fuel Management systems are an integral part of any bulk fuel storage and dispensing operation. Keeping solutions simple enough to be easily implemented is just as important."

There are two hardware aspects to FMS. Controlling and recording dispensing information and Automatic Tank Gauging for stock control

Magnetostrictive Probe

Fuel Float

Water Float
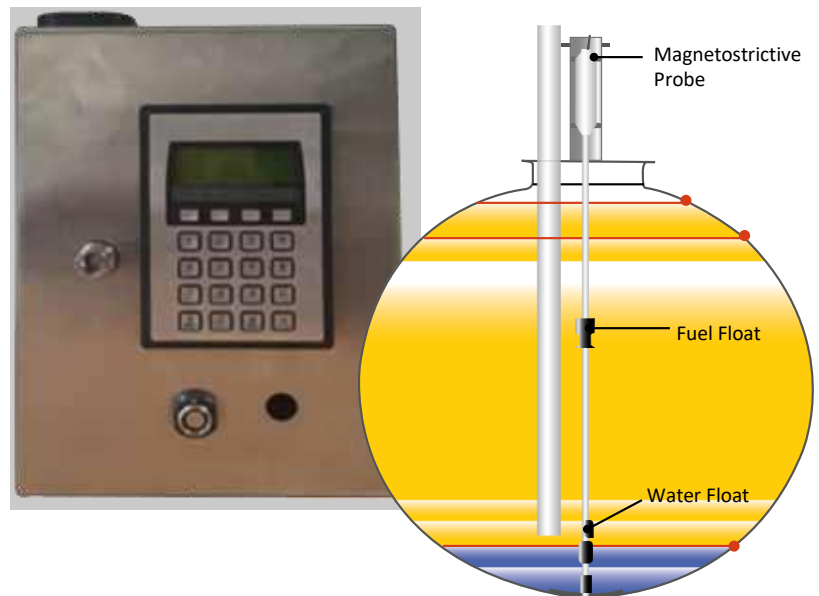
Ideal for commercial bulk fuel consumers

Operating procedure

- The ST500 controls the pump nozzle. To activate the pump, the controller must receive the predetermined method for activation.

- Only once the controller authorises the transaction, can the driver/operator dispense fuel.

- The vehicle can be identified by numerous ways such as Dallas tag, Bluetooth data logging units, keypad entry etc. The operator / driver then inserts his unique PIN code (like an ATM).

- Lastly the Asset Odometer or engine hour reading is inserted. This is for comparing automatically collected data to keypad entered readings.

Reporting

- Various business rules can be implemented when using the controller for pro-active control such as tank size limit etc.

- Keypad entered odo/engine readings are compared to automatically collected data.

- Site reconciliation

- Client can instantly activate/deactivate or load new drivers/vehicles online

- Current tank levels

- Historical levels

- Vehicle consumption summery

- Vehicle efficiencies

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The difference between guessing and Knowing

ST500 Technical Information

Capabilities	Hardware	Benefits
Web-based reporting	IP68	Limited human intervention
Reads two nozzles/pumps	Stainless steel enclosure	Accurate data
Operates with 24v/230v	Robust Dallas iButton tags	Online reporting
Integrates with ATG	Powder coated steel stand	No server required
Import on-road transactions	Internal UPS	Automatic reporting
Records driver, asset, litres and date, time	Internal modern	Simple operating methods
Collates information for website reporting	Lockable enclosure	Easy to implement on site

ST500 functionality

Fuel dispensed from the bulk storage tanks and mobile bowsers are monitored and controlled by the ST500 pump controller.

The ST500 pump controllers record:

- ☑ Date and time of transaction
- ☑ Volume of fuel dispensed
- ☑ Vehicle to which fuel was dispensed
- ☑ Odometer or engine hour reading of vehicle
- ☑ Driver / Attendant (If PIN option is selected)

Based on the information obtained reports are compiled and distributed via our FMA website.

The theoretical closing stock balance is compared to the recorded closing stock balance and discrepancies above the accepted norm are investigated. This is the starting point of any management system and the most important aspect on a site.

Fuel dispensed to individual vehicles should then also be managed. All fuel transactions Allocated to a vehicle are monitored via vehicle fuel efficiency / consumption reporting.