



FAMS 2024

Solution Overview



www.fams.co.za

FAMS

WELCOME TO FLUID AUTOMATED MANAGEMENT SOLUTION (FAMS)

**FAMS, YOUR ONE-STOP
MANAGEMENT SOLUTION**

**We help store, pump, filtrate,
manage and control your liquid
assets.**



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FAMS

WHAT IS FAMS?

FAMS, by Tecmo Automation

For over 20 years FAMS has been providing fuel infrastructure solutions to the mining, commercial and agricultural industries. Fuel solutions are the heart of FAMS. We are focused on your specific needs, to provide a solution tailored to meet your requirements. FAMS is involved with projects and installations across the globe and has proven to be a state-of-the-art solution with unbeatable service!

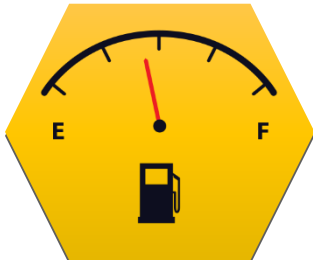
Our Solutions:





FUEL MANAGEMENT SOLUTION (FMS)

The FAMS Fluid dispensing system combines all the fuel and lube dispensing parameters to produce a complete and integrated fluid management solution.



AUTOMATIC TANK GAUGING (ATG)

With Fams level management solution (automatic tank gauging), Wet stock management is done effectively due to a tank gauging accuracy, repeatability and reduced human intervention.



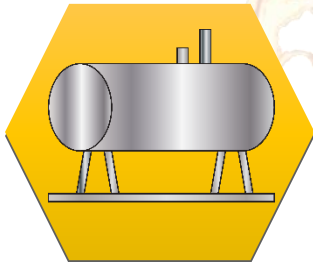
FUEL TRAILERS

High quality, SABS approved fuel trailers with assisted braking and micro dotting.



SELF BUNDED TANKS AND PUMP KITS

The latest state-of-the-art self-bunded and conventional fuel and lubricant storage tanks. There are several design and six options available, depending on client requirements. Pump kits manufactured to client requirements.



CONVENTIONAL CYLINDRICAL TANKS

Conventional cylindrical tanks are the most common and can be found just about anywhere globally, storing Petro Chemical Products, Aviation Fuels, Lubricants, Chemicals and so much more.



PIUSI

Piusi pumps, flow meters, dispensing instruments and accessories.



FILTRATION SOLUTIONS

Icermax, a broad range of primary, secondary and final diesel filtration systems as well as onboard filtration systems. Donaldson filtration, for all your filtration requirements.



FMS

FMS

FUEL MANAGEMENT SYSTEM

System Overview

FAMS is a field-proven state of the art data acquisition and control system for fleet operators. The FAMS fluid management system provides a complete and integrated fluid management solution by combining all the dispensing process elements. FAMS offers an exceptional, trustworthy and accurate fuel control system to industrial, commercial, mining and agricultural operations. Ensuring real-time data on fuel consumption.

This innovative solutions is developed locally with the flexibility to be adapted to client specific needs.

System Advantages

- Authorize operator and vehicle control through RFID tags.
- Ensure maximum accuracy with minimum human intervention.
- Real-time data feedback into the cloud.
- Assess data for a better understanding of driver and vehicle operation.
- Fuel consumption information at your fingertips.
- Flexible solution for client specific requirements.
- Custom reports for client specific requirements.

Design

- Robust, user-friendly equipment for use in extreme environmental conditions.
- EMI / RFI protected.
- Dust and waterproof enclosure.
- Durable design.
- 5" Touch screen.
- Small compact design with integrated material.
- Light weight unit that is surface mountable.
- Stainless-steel where applicable.

Operational Characteristics

- Temperature range: 0°C to 60°C.
- Supply voltage: 220V AC or 12.24V DC.
- Power consumption: low power consumption.
- Output: RS232 port, RS485 port, ethernet port.
- Wireless transmissions: RF communications.
- Enclosure: IP65 where applicable.

Features and Functionalities

- Dispensing controller can handle up to six different products.
- Unit will electronically control the pump switch.
- Visible dispensing controller interface system with large keypad for easy data entries.
- The unit has an onboard reader for user identification purposes.
- Dispensing controller continuously scans tags of vehicles ready for dispensing.
- Automatically retrieves vehicle information wirelessly or via network cabling.
- All transaction data is stored internally with date and stamp.
- Dispensing controller connects to remote site server wirelessly or via network cabling.
- Memory capacity to store up to 10 years of data.



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MOBILE TOUCH FUEL MANAGEMENT SYSTEM

FEATURES

- Cloud integration
- Large 5" touchscreen
- User friendly, easy operation
- Wireless or cable networking
- Single product control/ selection
- Automatic pump control
- User Identification functionality
- Transaction capturing and data storage
- Fixed and mobile pump units
- WiFi functionality

CONSTRUCTION

- Sealed, waterproof
- Glare free Poly Carbon display
- Not susceptible to environmental strains
- Light weight, easy movable

PHYSICAL CHARACTERISTICS

- 12 - 24V DC power supply
- Low power consumption
- USB interface
- GSM/ WIFI interface
- RS 232/ 485 com port
- Fully networkable
- RFID internal reader
- Optional RFID external reader



FAMS BENEFITS

- Authorize operator and vehicle control through RFID tags
- Ensure maximum accuracy with minimum human intervention
- Real time data feedback into the cloud
- Robust, user-friendly equipment
- Assess data for a better understanding of driver and vehicle operation
- Fuel consumption information at your finger tips
- Flexible solution for client specific requirements
- Custom reports for client specific requirements



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COMMERCIAL FUEL MANAGEMENT SYSTEM

FEATURES

- Cloud integration
- Large LCD display and keypad
- User friendly, easy operation
- Wireless or cable networking
- Single product control/ selection
- ATG functionality- single tank
- Automatic pump control
- User Identification functionality
- Transaction capturing and data storage
- Fixed and mobile pump units
- Slip/ receipt printing function

CONSTRUCTION

- Stainless steel enclosure
- Override functionality
- Sealed, waterproof
- Glare free Poly Carbon display
- Not susceptible to environmental strains
- Light weight, easy mounting



PHYSICAL CHARACTERISTICS

- 12 / 24V DC power supply
- Low power consumption
- USB interface
- GSM/ WIFI interface
- RS 232/ 485 com port
- Fully networkable
- RFID internal reader
- Optional RFID external reader

FAMS BENEFITS

- Authorize operator and vehicle control through RFID tags
- Ensure maximum accuracy with minimum human intervention
- Real time data feedback into the cloud
- Robust, user-friendly equipment
- Assess data for a better understanding of driver and vehicle operation
- Fuel consumption information at your finger tips
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INDUSTRIAL FUEL MANAGEMENT SYSTEM

FEATURES

- Cloud integration
- Large LCD display and keypad
- User friendly, easy operation
- Wireless or cable networking
- Multiple product control/ selection
- ATG functionality- multiple tanks
- Automatic pump control
- User Identification functionality
- Optional biometric integration
- Transaction capturing and data storage
- Fixed and mobile pump units
- Slip/ receipt printing function

CONSTRUCTION

- Stainless steel enclosure
- Override functionality
- Sealed, waterproof
- Glare free Poly Carbon display
- Not susceptible to environmental strains
- Light weight, easy mounting



PHYSICAL CHARACTERISTICS

- 220 V power supply
- Low power consumption
- USB interface
- GSM/ WIFI interface
- RS 232/ 485 com port
- Fully networkable
- RFID internal reader
- Optional RFID external reader

FAMS BENEFITS

- Authorize operator and vehicle control through RFID tags
- Ensure maximum accuracy with minimum human intervention
- Real time data feedback into the cloud
- Robust, user-friendly equipment
- Assess data for a better understanding of driver and vehicle operation
- Fuel consumption information at your finger tips
- Flexible solution for client specific requirements
- Custom reports for client specific requirements



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ECO FUEL MANAGEMENT SYSTEM

FEATURES

- Cloud integration
- Large LCD display and keypad
- User friendly, easy operation
- Between 20 - 30 transactions per day
- Single product control/ selection
- Automatic pump control
- User Identification functionality
- Transaction capturing and data storage
- Fixed and mobile pump units
- Gravity feed mechanical pump

CONSTRUCTION

- Stainless steel enclosure
- Override functionality
- Sealed, waterproof
- Glare free Poly Carbon display
- Not susceptible to environmental strains
- Light weight, wall mounting or stand.



PHYSICAL CHARACTERISTICS

- Solar panel/ no electricity required - optional 220V• no solar panel required
- USB interface
- GSM/ WIFI interface
- RS 232/ 485 com port
- RFID internal reader
- Optional RFID external reader

FAMS BENEFITS

- Authorize operator and vehicle control through RFID tags
- Ensure maximum accuracy with minimum human intervention
- Real time data feedback into the cloud
- Robust, user-friendly equipment
- Assess data for a better understanding of driver and vehicle operation
- Fuel consumption information at your finger tips
- Flexible solution for client specific requirements
- Custom reports for client specific requirements



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FUEL MANAGEMENT SOLUTION

FAMS is a complete fuel and lube management system. The FAMS solution incorporates various modules such as automatic tank level management, fluid (fuel and lube) dispensing management, and data management platforms with reporting services.

Tecmo's Fluid Management System provides a complete and integrated fluid management solution by combining all the dispensing process elements. FAMS offers exceptional, trustworthy and accurate Fuel Control Systems to industrial, commercial, mining and agricultural operations. Ensuring real-time data on fuel consumption.

FAMS BENEFITS

- Authorize operator and vehicle control through RFID tags
- Ensure maximum accuracy with minimum human intervention
- Real time data feedback into the cloud
- Robust, user-friendly equipment
- Assess data for a better understanding of driver and vehicle operation
- Fuel consumption information at your finger tips
- Flexible solution for client specific requirements
- Custom reports for client specific requirements



INDUSTRIAL SOLUTION

- ✓ Modular design
- ✓ Multi product dispensing
- ✓ Interface with various ATG sensors
- ✓ LAN, Wi-Fi or GSM internet connection
- ✓ 12,24 or 220V

COMMERCIAL SOLUTION

- ✓ Light and compact design
- ✓ Single product dispensing
- ✓ Entry level ATG sensor functionality
- ✓ GSM communication
- ✓ 12V only



ATG

ATG

AUTOMATIC TANK GAUGING

System Overview

Automatic tank gauging is a fuel monitoring system that detects water, leakage, and supervises real-time tank volume. In addition, the system is connected to our web portal, which provides detailed and accurate reporting services. With FAMS automatic tank gauging solution, wet stock management is optimized. Solutions range from a single on-site tank to multiple tank installations.

System Advantages

- Effective inventory control.
- Ease of integration with existing financial system.
- Stock level management.
- User-friendly, robust equipment.
- Real-time reporting via emails.
- Integrates with all major accounting or ERP systems.
- Web portal visibility.

Features and Functionalities

- Automatic stock level management with tank gauging equipment.
- Tracks all stock movement (receipts, transfers, etc.)
- Several sensors for fuel, temperature and water detection in storage tanks.
- User definable alarms for all your requirements.
- Easy and cost-effective start up.
- Real time stock levels with SCADA integration.
- Suitable for use with a range of modern storage levels.

ATG Benefits

Stock level management



Real-time reporting via emails



Web portal visibility



User-friendly, robust equipment



Integrates with all major accounting or ERP systems



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COMMERCIAL AUTOMATIC TANK GAUGING

FEATURES - ATG SENSOR XMT-SI-485/RF

- Stainless steel shaft
- Magneto restrictive sensor
- 2 x floats; 2 x interfaces (Diesel and water)
- Wired or wireless sensor
- Detects water and measures temperature
- RS454 protocol and com port
- IS safe barrier
- Power supply: 12V DC
- EX II 1G EX Ma
- Product Resolution: 0.1 mm
- Measuring Accuracy 0.5mm

FEATURES - FAMS

- Cloud integration
- Large 5" touchscreen
- Integrate with Gilbarco, Tokheim devices and sensors
- Sensor integration - Analog signals such as 4-20mA
- Capture stock levels at adjustable user interval
- Sealed, waterproof
- Measures up to 6 tanks
- Mild or stainless steel enclosure
- Slip/receipt printing functionality

PHYSICAL CHARACTERISTICS

- Power supply: 12 V DC
- RS 485 – RS 232 com ports
- USB backup and restore
- Ethernet port
- IS-barriers
- RS 232/ 485 com port
- GSM or Wi-Fi interface

FAMS BENEFITS

- Authorize operator and vehicle control through RFID tags
- Ensure maximum accuracy with minimum human intervention
- Real time data feedback into the cloud
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ECO AUTOMATIC TANK GAUGING

FEATURES - ATG SENSOR

- Submersible Pressure sensor
- Stainless steel packaging
- Output signal: 4-20mA
- Measuring Accuracy 2 - 5%
- Sensor application such as Water, diesel and oil
- Working temperature : 0 - 70
- EX CT 4, IP 68
- Power supply: 10-30V DC
- Single interface (Diesel)

FEATURES - FAMS

- Cloud integration
- Large 5" touchscreen
- Integrate with Gilbarco, Tokheim devices and sensors
- Sensor integration - Analog signals (4-20mA)
- Capture stock levels at adjustable user interval
- Sealed, waterproof
- Single tank measurement
- Stainless steel enclosure
- Slip/receipt printing functionality



PHYSICAL CHARACTERISTICS

- Power supply: 12 V DC
- RS 485 – RS 232 com ports
- USB backup and restore
- Ethernet port
- IS-barriers
- RS 232/ 485 com port
- GSM or Wi-Fi interface

FAMS BENEFITS

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INDUSTRIAL AUTOMATIC TANK GAUGING

FEATURES - ATG SENSOR XMT-SI-485/RF

- Stainless steel shaft
- Magneto restrictive sensor
- 2 x floats; 2 x interfaces (Diesel and water)
- Wired or wireless sensor
- Detects water and measures temperature
- RS454 protocol and com port
- IS safe barrier
- Power supply 12V DC
- EX II 1G EX Ma
- Product Resolution: 0.1 mm
- Measuring Accuracy 0.5mm

FEATURES – FAMS INDUSTRIAL

- Strapping tables
- Web access
- Touch screen
- Measures 8-32 tanks (model dependent)
- Measuring and reporting
- Temperature compensation
- Tank trending
- Low level detection

PHYSICAL CHARACTERISTICS

- 12 / 24V DC power supply
- Low power consumption
- USB interface
- GSM/ WIFI interface
- RS 232/ 485 com port
- Fully networkable

FAMS BENEFITS

- Authorize operator and vehicle control through RFID tags
- Ensure maximum accuracy with minimum human intervention
- Real time data feedback into the cloud
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AUTOMATIC TANK GAUGING SYSTEM/ SOLUTION (ATG)

Managing wet stock presents numerous obstacles attributable to inspection methods, remote locations, fraud and theft, etc. Automatic tank gauging is a fuel monitoring system that detects water and supervises real-time tank volume. In addition, the system is connected to our web portal, which provides detailed and accurate reporting services. With FAMS Automatic Tank Gauging Solution, wet stock management is optimized. Solutions range from a single tank to multiple tank installations.

OUR SOLUTIONS

1. COMMERCIAL

- Hydro static sensor
- FAMS basic display
- Sends data to cloud

2. ECONOMICAL

- Magneto restrictive sensor
- FAMS basic display
- Send data to cloud

3. INDUSTRIAL

- Magneto restrictive sensor
- Tokheim controller
- Gateway interface

FEATURES



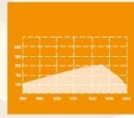
Automatic stock level management with tank gauging equipment



User definable alarms for all your requirements



Robust user-friendly equipment



Web Portal visibility with real time reporting



Tracks all stock movement (receipts, transfers, etc.)



Easy and cost-effective start-up



Integrates with all major accounting or ERP systems



Real time stock levels with SCADA integration



Several sensors for fuel, temperature and water detection in storage tanks



Suitable for use with a range of modern storage tanks





SELF BUNDED TANKS

Self-Bunded Tanks

Fuel Storage Tanks

Tank Specifications

- Tanks are self-bunded or double walled.
- Designed to fit on container footprint.
- Container corner locks provided.
- Tanker hose filler provided with dust cover protection.
- Overfill protection, mechanical shut off and alarm.
- Permanent ladder and platform for easy access.
- Interstitial space integrity management system utilizing dipstick.
- Standard pump bay housing.
- Breather vents etc. supplied with dust filler fitting.
- Dipstick, dip point and cap provided.
- Security doors and locks.
- Statutory signage.

SELF BUNDED TANKS

FAMS SBT RANGE

TANK WEIGHTS AND MEASURES

TYPE	HEIGHT MM	LENGTH MM	WIDTH MM	TOTAL MASS EMPTY KG	SAFE FILL LITRES
FAMS SBT – T 12K	2896	2991	2438	4300	10530 (90%)
FAMS SBT – T 18K	2896	2991	2438	4600	15390 (90%)
FAMS SBT – T 30K	2896	6058	2438	6200	27450 (90%)
FAMS SBT – T 36K	2896	6058	2438	6500	33030 (90%)
FAMS SBT – T 68K	2896	12192	2438	11900	61830 (90%)

SELF BUNDED TANKS

TANK WEIGHTS AND MEASURES

TYPE	HEIGHT MM	LENGTH MM	WIDTH MM	TOTAL MASS EMPTY KG	SAFE FILL LITRES
FAMS SBT – T 75K	2896	12192	2438	12200	67320 (90%)
FAMS SBT – T 80K	2896	14630	2438	14000	75330 (90%)
FAMS SBT – T 100K	3200	14630	2438	14900	90270 (90%)
FAMS SBT – T 110	3635	14630	2438	16100	104130 (90%)



Self-Bunded Tanks

Fuel Storage Tanks

Fuel Storage Overview

FAMS has been providing complete fuel storage solutions across Africa since 2017. In pursuit of fuel infrastructure excellence, FAMS sourced the highest quality self-bunded tanks to add to our product line-up. FAMS supplies a range of containerised, self-bunded, environmentally friendly fuel storage tank solutions and services. The tanks are cost-effective and versatile with low initial cost, installation and maintenance benefits combined with the flexibility of shipping containers logistics. In addition, FAMS supplies conventional fuel storage tanks.

FAMS, your one-stop fuel infrastructure solution since 1997.

Self-Bunded Tanks

- Hard standing, no cement or foundation required.
- Requires only a crane or side lifter to lift and place tanks.
- Significantly reduces HSSE risks as all fabrication is done off-site.
- Easily movable and can be relocated quickly with no additional costs.
- Modular and quick number increase or reduction.
- Reduces construction time.
- Avoid unnecessary costs.

Compliance

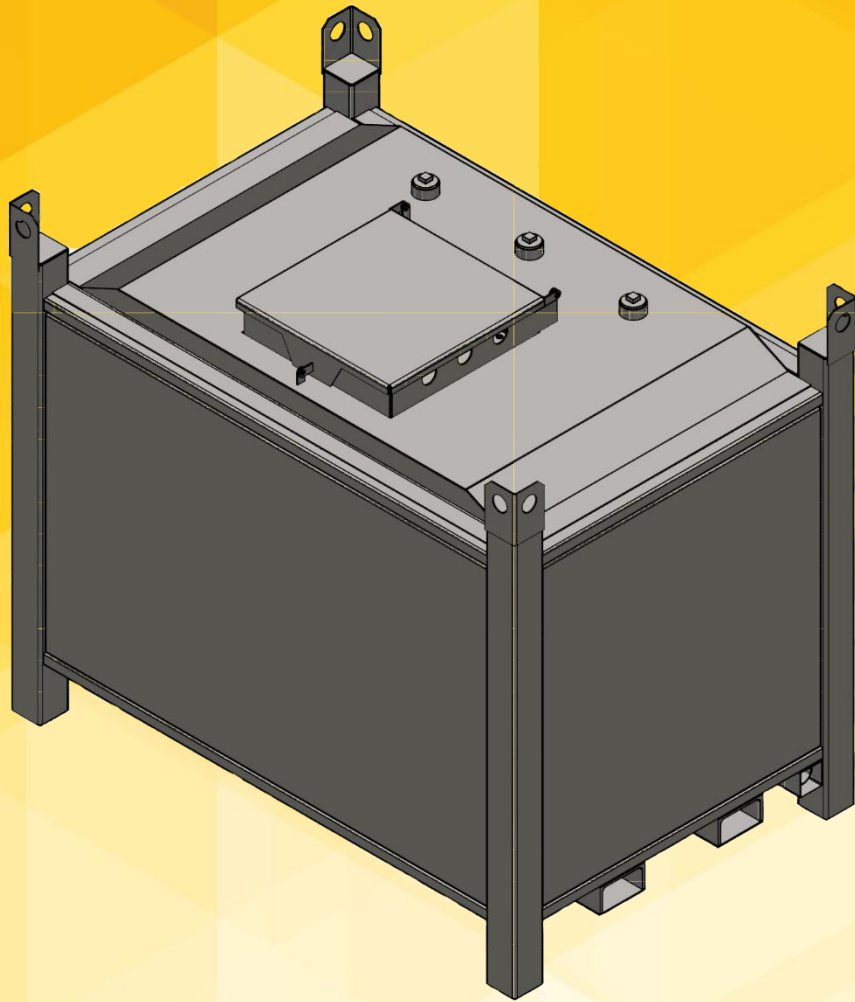
- UL 142 – Standard for steel above ground tanks for flammable and combustible liquids.
- ULC-S601 – Shop fabricated steel above ground tanks for flammable and combustible liquids.
- AS1940 – The storage and handling of flammable and combustible liquids.
- AS1692 – Steel tanks for flammable and combustible liquids.
- UN Dangerous goods transport.

Product Description

Mobile fuel station – Self-bunded portable fuel storage tank system designed to minimise your footprint and maximise storage capacity. Build to suit both end users with fleets and fuel distributors with control system standard.

Tank Features

- Can be customized with 2, 3, 4 or 5 inner tanks in 1 container.
- Tank capacity from 10 000 to 68 000 litres.
- Transfer pump from tanker to mobile fuel station, with camlock and hose connection.
- Non-return valve and overfill protection valve.
- Free vent.
- 1 or 2 guns for fuel dispenser, flow rate 45L per min, 60L per min, 80L per min or 120L per min.
- Fuel level gauge for real-time monitoring.
- High level alarm for audible alarm.
- Side ladder.
- Container doors or rolling door.
- Solar panel supply power system.



CUBE TANKS

Cube Tanks

Self-Bunded Cube Tanks

Cube Self-Bunded Tanks

FAMS offers a cost-effective above ground cube self-bunded tanks, manufactured in South Africa. The tanks can be modified according to client specifications.

FAMS CUBE RANGE					
TYPE	HEIGHT MM	LENGTH MM	WIDTH MM	TOTAL MASS EMPTY KG	SAFE FILL LITRES
FAMS Cube 1000	1285	1320	1020	525	1000
FAMS Cube 2500	1394	2210	1588	1000	2500
FAMS Cube 4500	1394	3140	1588	1350	4500
FAMS Cube 6500	1394	4640	1640	1850	6500
FAMS Cube T10000					

Typical Examples



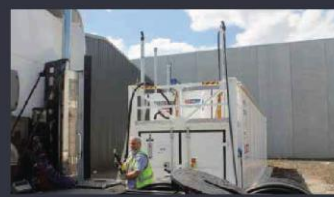
POWER GENERATION



AVIATION



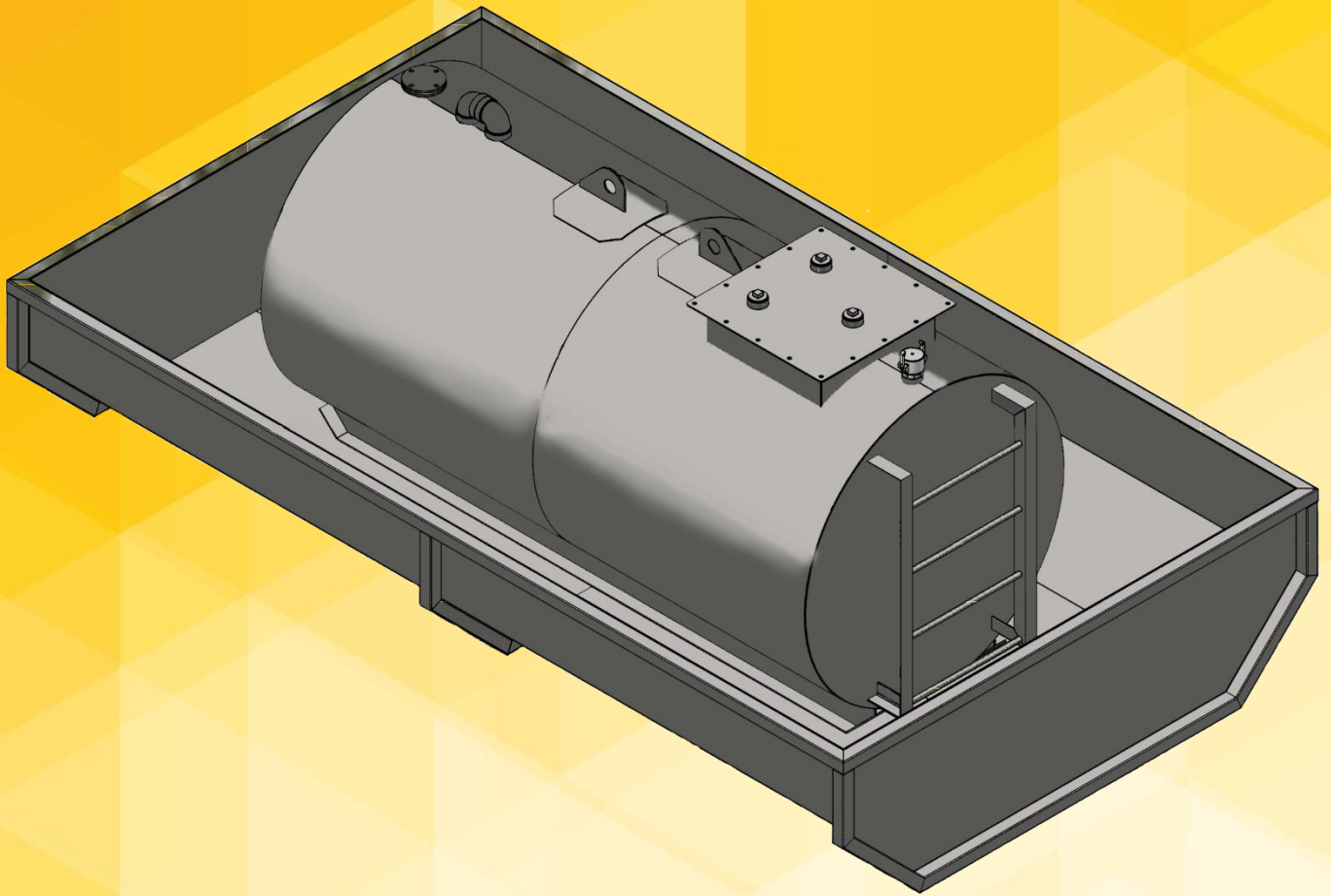
MINING AND OIL



TRANSPORT AND LOGISTICS



FUEL DISTRIBUTION AND RETAIL



OPEN SELF BUNDED TANKS

Open Self-Bunded Tanks

Fuel Storage Tanks

Fuel Storage Overview

FAMS offers a cost-effective above ground self-bunded with open bund area, manufactured in South Africa. The tanks can be modified according to client specifications. Tank capacities available in Horizontal tank in steel bund wall: Flat ends: 4500L; 9000L; 14000L (slimline); 23000L. Horizontal tank in steel bund wall: Dome ends: 23000L.

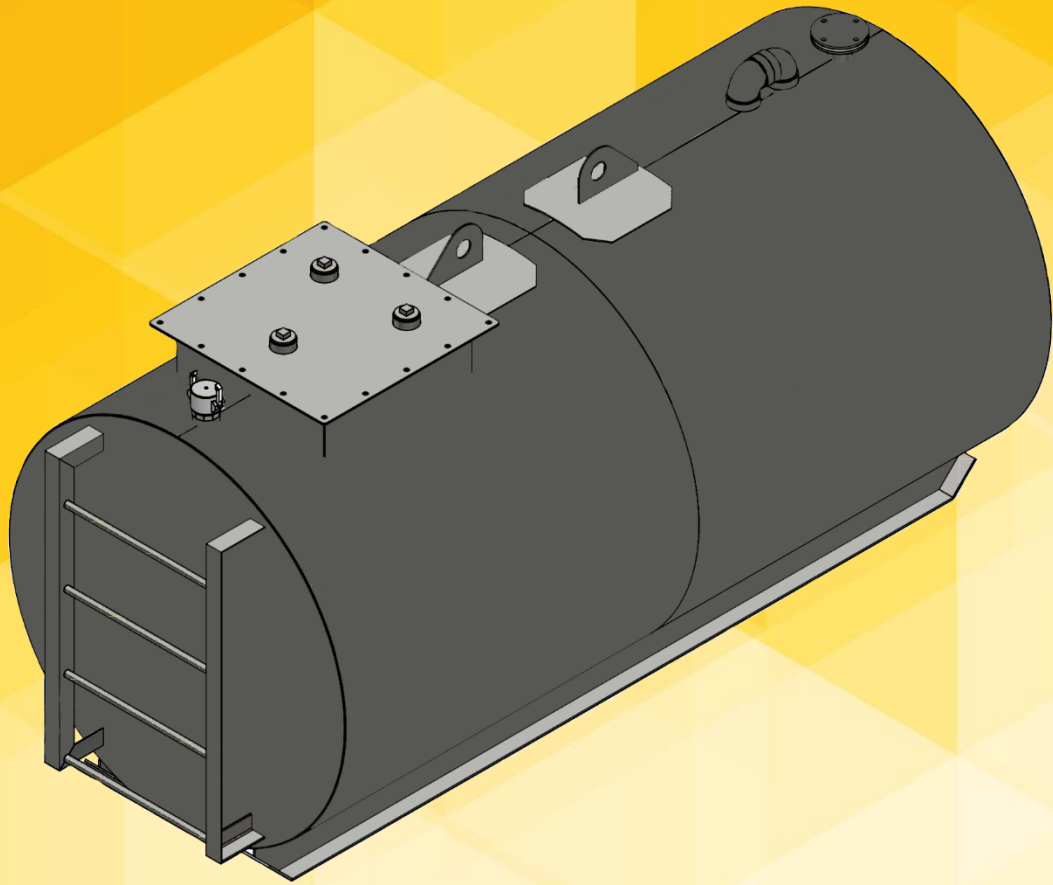
Features:

- Standard vent pipe.
- Standard dipstick.
- 110% self-bunded tank.
- 6mm Steel construction.
- Comes complete with fluid level dipstick, vent pipe and fittings.
- Ladders and walkways standard.
- Baffled internally.

FAMS OSBT RANGE

TYPE	HEIGHT MM	LENGTH MM	WIDTH MM	TOTAL MASS EMPTY KG	SAFE FILL LITRES
FAMS Cube 4500	2701	6309	1936	1750	4500
FAMS Cube 9000	3065	7905	2300	2500	9000
FAMS Cube 14000	3445	8510	2680	3000	14000
FAMS Cube 23000	3930	8998	3121	3900	23000





CONVENTIONAL CYLINDRICAL TANKS

Conventional Cylindrical Tanks

Fuel Storage Tanks

Fuel Storage Overview

Conventional cylindrical tanks are most common and can be found just about anywhere globally, storing petrol chemical products, aviation fuels, lubricants and so much more. We have a range from 2,200Ltrs, there are also above ground as well as underground versions available. Manufactured and tested in accordance with relevant SANAS and AS codes, our ranges are the perfect fit for any solution.

Features:

- 2" Inlet.
- 2" Outlet.
- 3" Breather with weather guard.
- 600mm x 600mm manhole with 2" spare ports.
- Walkway with handrailing to access manhole.
- Access ladder.
- Skid mounted supports.

FAMS CYLINDRICAL RANGE

TYPE	HEIGHT MM	LENGTH MM	WIDTH MM	TOTAL MASS EMPTY KG	SAFE FILL LITRES
FAMS CYL 4500	1442	3809	1276	600	4500
FAMS CYL 9000	2981	5405	1640	1500	9000
FAMS CYL 14000	3355	5405	2020	1800	14000
FAMS CYL 23000	3601	6907	2250	2355	23000
FAMS CYL 46000	4101	9001	2750	4700	14000

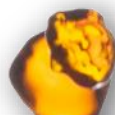




FUEL TRAILERS

Fuel Trailers

FAMS Fuel Trailers



SIZES

SIZE	DESCRIPTION
1000L	1000 – Trailer Bowser Assisted braking, single axle 14” wheels with spare, police clearance, micro dotting, SABS approved.
2000L	2000 – Trailer Bowser Assisted braking, single axle 14” wheels with spare, police clearance, micro dotting, SABS approved.
2000L	2000 – Trailer Bowser (Off-road) Assisted braking, single axle 15” wheels with spare, police clearance, micro dotting, SABS approved.
2500L	2500 – Trailer Bowser Assisted braking, single axle 14” wheels with spare, police clearance, micro dotting, SABS approved.

SIZES

SIZE	DESCRIPTION
1000L SS	1000 SS – Aviation trailer bowser stainless steel Assisted braking, single axle 14” wheels with spare, police clearance, micro dotting, SABS approved.
2000L SS	2000 SS – Aviation trailer bowser stainless steel Assisted braking, single axle 14” wheels with spare, police clearance, micro dotting, SABS approved.
2000L SS	2000 SS – Aviation trailer bowser stainless steel (Off-road) Assisted braking, single axle 15” wheels with spare, police clearance, micro dotting, SABS approved.



PIUSI
®

**PUMPS, FLOW METERS,
DISPENSING
INSTRUMENTS, FAMS – A
SUPPLIER**

PIUSI

Pumps, Flow meters, Dispensing Instruments, FAMS – A supplier

Mechanical Flow Meters K33 – K44

The K33 and K44 mechanical diesel flow meters have been designed for precise measurement of the quantity of fuels dispensed for non-commercial use. Easy to calibrate and install, the K33 and K44 flow meters can monitor the quantity of fuels dispensed for a maximum flow rate of 20-120 L/min and with a maximum working pressure of the pump of 10 bar. In addition, they can guarantee a burst pressure of 30 bar with a metering accuracy of +/- 1%.

The K33 and K44 mechanical flow meter for diesel is easy to calibrate at the place of installation and is suitable for installation on pump or service stations for diesel, for those who want to keep the amount of dispensed fluid monitored without special needs for storage.

K33 and K44 are reliable and economic mechanical flow meters that can also be used by gravity, thanks to the low resistance to flow.

Piusi Cube

Cube 56-70-90 is a diesel dispenser for non-commercial use that allows you to manage the transfer, dispensing and monitoring of fuel.

The characteristic of this diesel dispenser is that it can be adapted to different applications. In fact, it is possible to apply CUBE 56-70-90 on tanks, on the wall, on systems, on drums or on its special pedestal. CUBE 56-70-90 is suitable for different sectors: from the agricultural sector, the diesel transfer pump station can also be used in the logistics, automotive, construction and industrial sectors.

Features:

- Sturdy structure.
- Mechanical meter.
- Induction thermal-protected motor.
- Overload protection.
- Built-in mesh filter.
- IP 55.



PIUSI

Pumps, Flow meters, Dispensing Instruments, FAMS – A supplier

FAMS Piusi Self Service K44

Self service K44 is a diesel dispenser that meets the requirements of private operators who are looking for a diesel dispenser to refuel faster and faster, able to keep the amount of dispensed fuel monitored, thanks to the volumetric flow meter with oscillating disc and mechanical readout.

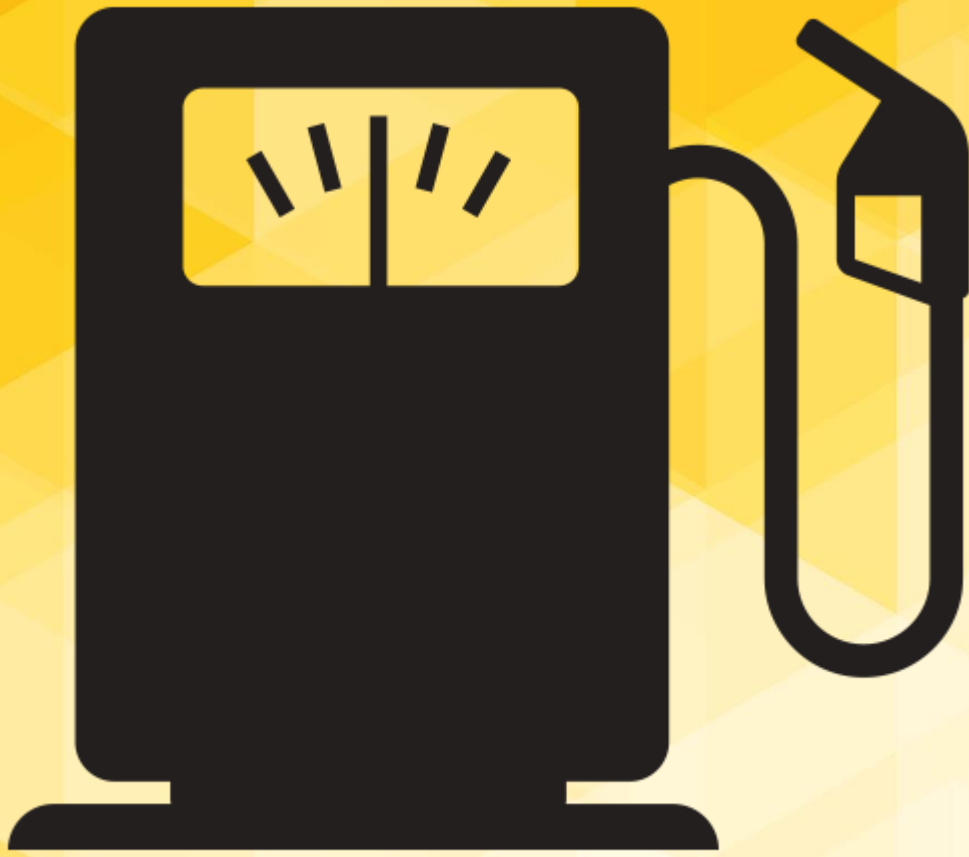
The absorption filter guarantees the quality of the fluid dispensed, eliminating the water present, which is harmful to new generation diesel engines. The strong design of the structure makes the self service K44 diesel dispenser ergonomic, functional and long lasting. The structure houses the nozzle holder with the start stop switch, and the hinged front door makes maintenance of the components easy. The self service K44 models are equipped with a high precision mechanical flow meter, easily calibrated by the user. The self service K44 pulsar models include, an electronic pulse emitter (10 litre plus, single channel) in the flow meter, ideal for connection to external management systems.

Optional Piusi self service K44 and FAMS fuel management totem pictured right.

Features:

- Water captor filter.
- All-in-one equipment.
- Compact design.
- IP 55.





PUMPS

Pumps

FAMS Dispensing Solutions

MFD Series

MFD series module fuel dispenser, containing bulk positive displacement flow meter, vane pump and coupling drive ex-proof motor, power control cabinet, hose reels mechanical register, nozzles etc., applied in boat refuelling in marine, public transportation vehicles, big trucks, trains, military vehicles, light aircraft with advantage of high flow rate, long service life, high accuracy, convenience, easy to operate etc.

TECHNICAL SPECIFICATION			
MODEL	MFD-40 MOBILE FUEL UNIT	MFD-50 MOBILE FUEL UNIT	MFD-80 MOBILE FUEL UNIT
FLOW RATE	200L per min	400L per min	700L per min
FLOW METER	M-50-1 flow meter 2"	M-50-1 flow meter 2"	M-80-1 flow meter 3"
PUMP	SUB-40 vane pump	YB-65 vane pump	YB-80 vane pump
EX-PROOF MOTOR	1.5Kw,50Hz,380 V (220V motor for option)	4Kw,50Hz,380 V (220V motor for option)	7.5Kw,50Hz,380 V (220V motor for option)
HOSE	1.5", 20M	2", 20M	3", 20M
NOZZLE / HOSE ADAPTOR	1.5" automatic nozzle (Hose adaptor for option)	1.5" automatic nozzle (Hose adaptor for option)	1.5" automatic nozzle (Hose adaptor for option)
HOSE REEL	Manual reel (electric motor driven reel for option)	Manual reel (electric motor driven reel for option)	Manual reel (electric motor driven reel for option)
PRESET FUNCTION	For option	For option	For option
ELECTRIC REGISTER	For option	For option	For option



Pumps

FAMS Dispensing Solutions

FAMS T-MAN

- Fuel dispenser with 1*¾" automatic nozzle and 1*¾" hose (4m).
- 1 Gear pump.
- 1 Flow meter accuracy: ±0.25%.
- Flow rate range: 5-50LPM.
- 1 Ex-proof motor.
- Power supply: 220V.
- Output power: 750W.
- FAMS FMS optional.
- 1 White display.
- Can be used for 1 product.



Pumps

FAMS Dispensing Solutions

FAMS S-MAN

- Fuel dispenser with 2*¾" automatic nozzle and 2*¾" hose (4m).
- 2 Gear pump.
- 2 Flow meter accuracy: ±0.25%.
- Flow rate range: 5-50LPM.
- 2 Ex-proof motor.
- Power supply: 220V.
- Output power: 750W.
- 2 Metal keyboard.
- 4 White display.
- FAMS FMS optional.
- Can be used for 2 products.





FILTRATION SOLUTIONS

Filtration Solutions

For all your filtration solutions.

FAMS – A supplier

Icermax

iCerMax™ offers a broad range of primary, secondary and final filtration systems for bulk tanks as well as onboard units, utilizing the benefit of iSo-SpecSure™ and iAquaMax™ filtration technology. The products offered by iCerMax™, extend the economic lifecycle of engines and equipment as it is developed in Africa in relation to the harsh contamination levels face by the African fuel market.

Product Range

The iCerMax™ product range offers several products aimed at many different areas of the fuel management process. The filtration units offered by iCerMax™ are adaptable to several sizes of the application needed and may be used in both particle and water filtration. The products have been developed in Africa so as to cope with the harsh African fuel conditions, where severe contamination levels as well as adverse water are experienced. All products are developed to utilize various combinations of filters in order to cater for pre-cleaning and final cleaning, along with heightened capacity levels, ensuring sustainable cleanliness levels. The filter combinations available may be customized for client needs and is efficiently adaptable so as to still remain sustainably viable as well as cost effective. The product range extends to the prevention of fuel theft as iCerMax™ offers patented anti-siphoning devices, which further forwards the aims of the company in offering products that are efficient, effective and remain cost effective specifically tailored to the clients needs.



Filtration Solutions

For all your filtration solutions.

FAMS – A supplier.

Donaldson Filtration

For over 100 years, Donaldson has helped solve some of the world's most complex filtration challenges. Filtration solutions for every need.

Bulk Fluids

Remove the contaminants from fuel and lubricants – achieve more.

The sophistication of today's equipment requires higher fuel and fluid cleanliness levels than ever before. Donaldson bulk tank filtration systems help save on costly component replacement, prevent unplanned downtime and even prevent a decrease in fuel efficiency due to injector wear. Our bulk filtration systems reduce your total cost of equipment ownership.

Filter Kits and Carts

Our clean diesel kits and carts are easy to install and come with everything needed to provide the cleanest and driest diesel fuel to your high-pressure common rail (HCPR) engine.

Filters, Heads and Manifolds

Clean solutions diesel and lube filters are engineered to meet or exceed OEM cleanliness targets in a single pass. Spin-on filters are attached to single heads, dual heads, or manifolds to meet flow rate, viscosity, or service interval requirements for specific applications requirements.

Tank Accessories

Diesel and lubricant tanks ingress dirt, dust, and atmospheric moisture. Donaldson provides solutions that prevents all three from entering storage tanks, so fluids stay clean and dry.





FLOW METERS

Flow Meters

FAMS Flow Meters

Flow meters and Hose Reels

FAMS offers a range of flow meter and hose reel solutions for every need.

Piusi K33 and K44

The Piusi K33 and K44 are mechanical flow meters suitable for the monitoring diesel. Piusi K33 as a mechanical flow meter has a partial indicator with 3 digits (max. 999 litres), total 6 digits, while Piusi K44 has a partial indicator with 4 digits (max. 9999 litres), with a total of 7 digits.

Gespasa Electronic Meters

Gespasa electronic meters come with the following features:

- Aluminium body.
- Measurement through high accuracy oval gears.
- 5-digit digital display of liquid crystal.
- Partial indicator of 3 integers and 2 decimals and 5-digit totalizer.
- Accuracy: $\pm 0.05\%$.
- Max temperature: 50°C .
- Min temperature: -10°C .
- Button battery of long duration (approx. 4 years, according to its application).
- Low battery display.



Flow Meters

FAMS Flow Meters

MGE-110

5-110 l/min · ±0.5% · F1"

DIESEL

LUBRICANT

BIODIESEL

MGE-110 · Aluminium Electronic Meter with oval gears

32600-CF00000

MGE-110 · Aluminium Electronic Meter with oval gears and Viton joints · B100

32600-CF00100

- It is suitable for diesel and lubricant measurement.

TECHNICAL DATA

- Body made of aluminium.
- Tropicalised electronics
- Measurement through oval gear of high accuracy
- Digital Display of liquid crystal
 - 3 integers and 2 decimals: "999.99"
 - 4 integers and 1 decimal: "9999.9"
 - 5 integers: "99999"
- Flow (approx.):
 - 5-110 l/min (diesel)
 - 5-80 l/min (lubricant)
- Fluid density: 2-2000 cSt
- Accuracy: ±0.5%
- Maximum pressure: 55 bar
- Max. temperature: 50 °C
- Min. temperature: -10 °C
- Connection through F1" thread or flange
- Button battery of long duration (approx. 4 years, according to its application)
- Low battery display
- Calibration parameters and litre totalizer saved in PERMANENT memory.

Size and weight (approx.):

- Dim.: 123x68x123 mm (length x width x height)
- Net weight: 0.850 kg
- Box dim.: 147x85x140 mm (length x width x height)
- Gross weight: 0.900 kg



Flow Meters

FAMS Flow Meters

MGE-250

10-250 l/min · ±0.5% · F1" or 1 1/2"

LUBRICANT

DIESEL

BIODIESEL

MGE-250 1" · Electronic gear meter

32503-CF00000

MGE-250 1 1/2" · Electronic gear meter

32503-CF00001

MGE-250 1 1/2" · Electronic gear meter with Viton joint · B100

32503-CF00012

Electronic meter with aluminium measuring chamber, with high accuracy oval gears.

Technical data:

- Flow (approx.):
 - 10-250 l/min (diesel)
 - 10-150 l/min (lubricant)
- Tropicalised electronics
- 5-digit totalizer
- It stores the litres of the last service.
- Maximum pressure: 45 bar
- Min./Max. temperature: -10 °C / +50 °C
- Accuracy: ±0.5 %
- Inlet/outlet connection connection: F1" or 1 1/2" (flange) (according to the model)
- It is suitable for the lubricant measuring up to SAE-140 density.
- Feeding by button battery of long duration
- Low battery display
- It has calibration parameters and stored litre totalizer on a PERMANENT MEMORY.

Size and weight (approx.):

MGE-250 F1"

- Dim.: 159x100x140 mm (length x width x height)
- Weight: 2.3 kg

MGE-250 F1 1/2"

- Dim.: 185x100x140 mm (length x width x height)
- Weight: 2.5 kg



Flow Meters

FAMS Flow Meters

MGE-400

15-400 l/min · ±0.5% · F2" BSP

LUBRICANT

DIESEL

BIODIESEL

MGE-400 · Electronic gear meter

MGE-400 · Electronic gear meter with Viton joints · B100

Meter made of high quality aluminium. Its measuring chamber allows to transfer all type of hydrocarbon and oils (please, consult other liquids).

32592-CF00000

32592-CF00005

It is for private use.

Technical data:

- Flow (approx.):
 - 15-400 l/min (diesel)
 - 15-300 l/min (lubricant)
- Tropicalised electronics
- 5-digit display
- It stores the litres of the last service.
- Maximum pressure: 45 bar
- Min./Max. temperature: -10 / +50 °C
- Accuracy: ±0.5 %
- Inlet/outlet connection thread: Flange 2" BSP
- Powered by button battery of long duration
- Low battery display
- It has calibration parameters and stored litre totalizer on a PERMANENT MEMORY.

Size and weight (approx.):

- Dim.: 193x145x141 mm (length x width x height)
- Weight: 4.3 kg



Flow Meters

FAMS Flow Meters

MGE-40-1

2-40 l/min · ±0.5% · F1/2"

LUBRICANT

DIESEL

MGE-40 · Electronic gear meter

32350-CF00000

Electronic meter with aluminium measuring chamber, with high accuracy oval gears, with Display-LCD. It is included a removable protective case made of flexible rubber and with high Display button protection.

Technical data:

- Flow (approx.):
 - from 2 to 40 l/min (lubricant)
 - from 2 to 50 l/min (diesel)
- 5-digit totalizer
- It stores the litres of the last service.
- Maximum pressure: 50 bar
- Min./max. temperature: -10 °C / +50 °C
- Accuracy: ±0.5 %
- Inlet/outlet connection thread: F1/2" GAS (BSP)
- It is suitable for the lubricant measuring up to SAE-140 density
- Feeding by button battery of long duration
- Low battery display
- It has calibration parameters and stored litre totalizer in a PERMANENT MEMORY.

Size and weight (approx.):

- Dim.: 85x60x85 mm (length x width x height)
- Weight: 0.5 kg



Flow Meters

FAMS Flow Meters

M-50-1

Bulk Meter M50

The Ehad M Series Positive Displacement flow meter combines excellent accuracy with a low-pressure drop. Compared to traditional flow meters, it offers more sustainable accuracy, low wear, and the absence of metal-to-metal contact within the measuring chamber, resulting in maximum accuracy retention over time, fewer recalibrations, and a longer service life.

This meter is constructed with advanced materials to cover a broad range of measurement applications and comes with a full selection of accessories and electronic registration. The Ehad Depot Meters are designed to be robust and suitable for industrial or commercial use in demanding environments. Ehad Meters are available in various sizes, along with additional accessories.

Features:

High accuracy: $\pm 0.2\%$

- Excellent repeatability ≤ 0.05
- Wide flow rate range: 25Lpm to 1700Lpm
- Wide viscosity range: from less than
- 30 SSU (less than 1 centipoise) to 1,500,000 SSU (325,000 centipoise).

Applications:

- Refined fuels
- LPG
- diesel oil
- Aviation fuel
- Alternative Fuels
- Lube oils
- Crude petroleum products
- Alternative Fuels
- Marine fuel/bunker oil



Flow Meters

FAMS Flow Meters

M-100-1

Bulk Meter M100

The Ehad M Series Positive Displacement flow meter combines excellent accuracy with a low-pressure drop. Compared to traditional flow meters, it offers more sustainable accuracy, low wear, and the absence of metal-to-metal contact within the measuring chamber, resulting in maximum accuracy retention over time, fewer recalibrations, and a longer service life.

This meter is constructed with advanced materials to cover a broad range of measurement applications and comes with a full selection of accessories and electronic registration. The Ehad Depot Meters are designed to be robust and suitable for industrial or commercial use in demanding environments. Ehad Meters are available in various sizes, along with additional accessories.

Features:

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Applications:

- Refined fuels
- LPG
- diesel oil
- Aviation fuel
- Alternative Fuels
- Lube oils
- Crude petroleum products
- Alternative Fuels
- Marine fuel/bunker oil



Flow Meters

FAMS Flow Meters

M-50-CX-10

Key attributes

Industry-specific attributes

Type	Variable area air & gas flow meters
Other attributes	
Place of Origin	Shanghai, China
Warranty	2 years
Customized support	OEM, ODM, OBM
Brand Name	Cowell
Model Number	M-50-CX-10 2"
Name	LPG Positive Displacement Flow Meters
Meter Body	Aluminium
Size	50mm/2"
Flow Range	38-380L/min
Volume Rev	0.681L
Max Pressure	10bar/150PSI
Accuracy	+0.2%
Repeatability	<0.05%
Viscosity	30SSU-1,500,000SSU



Flow Meters

FAMS Flow Meters

M-80H-1

Positive Displacement Flow Meter with Mechanical Register Counter, Strainer & Air Eliminator

- Excellent stepless adjusting mechanism allows a micro adjustment of the meter.
- High accuracy and repeatability over the widest range of flow; Superior accuracy at constant flow.
- Low maintenance, no metal-to-metal contact in measuring chamber, long life service.
- Low pressure loss, a true gravity flow meter.
- Accuracy regardless of pressure fluctuations, temperature variation, viscosity.
- Choice of aluminium, cast iron and stainless steel materials of construction.

Specifications

DIY Supplies	Electrical
Certification	CE
Customized Support	OEM, ODM, OBM
Brand Name	Cowell
Type	Variable area petroleum flowmeters
Size	80mm/3"
Flow Range	115-1150L/min
Accuracy	+/-0.2%
Volume Rev	1.839L
Origin	Mainland China
Warranty	2 years
Place of Origin	Shanghai China
Model Number	M-80H-1 3"
Product name	Flow meter





HOSE REELS

Hose Reels

FAMS Hose Reel Solutions

Hose Reel

FAMS offers a range of flow meters and hose reel solutions for every need.

Heavy duty oil hose reel

Features:

- Steel construction – Heavy duty supporting arm construction resistant powder coating 48 hours salt fog tested.
- Non-sag roller – Four direction rollers reduce hose wear abrasion.
- Spring guard – Protects hose from wearing, assures long hose life.
- Self-laying system – Spring powdered auto rewind with 8000 full retraction cycles twice of regular spring.
- Guide arm – Multiple guide arm positions versatile uses and easier field adjustment.
- Easy mounting – Base can be mounted on wall, ceiling or floor.
- Adjustable hose stopper – Ensures the outlet hose reachable.





FAMS

Services

FAMS SERVICES

FAMS Services

FAMS Management Platforms

Overview

The FAMS web portal and mobile app, FAMS xpress (Android, Huawei and IOS compatible) provides highly effective, easily accessible reports with flexibility for additional features and client's custom requests, from small companies to large enterprises. FAMS collects and links all fuel relevant information into one platform to satisfy all our client's needs. From the FAMS web portal and mobile platform, any authorised person in an organization can view real-time and historical fuel data, including ATG information. Our portal and app provide professional comprehensive fuel dispensing information, ATG (tank inventory) information, operator management, and much more!

This innovative solution is developed locally with the flexibility to be adapted to specific client needs.

Advantages:

- Eliminates necessity of documentation and manual data capturing.
- User-friendly interface.
- Prevents intentional and accidental human error.
- Effective fluid and fleet management.
- Effective inventory control.
- Automatic tank gauging overview input.
- Automatic tank gauging detailed information.
- Access inventory, stock history and stock received.
- Statistical information (KPI) regarding vehicle usage.
- Easy navigation functions.
- 24 Hours availability.
- Client data is username and password protected.
- Monitor transaction type.

Reports:

Fuel dispensing reports such as:

- | | |
|--|---|
| <ul style="list-style-type: none"> • Per vehicle • Per site • Per operator • Per day • Per cost centre • Usage overview • Store usage • Equipment usages • Cost Centres • Operator usages • Fuel movement • Stock transfer • Transfer details • Stats report | <ul style="list-style-type: none"> • Logbook • Operator and driver overview • SARS reports |
|--|---|

AND MUCH, MUCH, MUCH, MORE!



ta

tecmo automation

(pty) Ltd

TECMO AUTOMATION

TECMO AUTOMATION

With over 30 years' experience of working excellent, founded in 1983.

TECMO is a passionate company committed to delivering goal-oriented products and solutions that deliver fast results to clients. Experts in design, geniuses in user experience – our aim is to develop products and solutions that make your users do more of what you want them to do. Nothing more and nothing less.

We are the experts when it comes to the hardware applications on which many of our solutions run. We know the specs of the hardware our solution requires, and we can work with you not only to understand system requirements and your institution's needs.

Vision:

We are more than a group of passionate professionals. We are unique. We focus on delivering solutions that are as simple as they can be, because simplicity is the ultimate sophistication. That's the balance.

Mission:

Tecmo is committed to meet the needs of our customers by providing a service of the highest quality with the available resources. To achieve this, we focus on optimising our financial and technical resources in order to deliver reliable services to all our customers.

Why Choose Us?

At Tecmo we are acclaimed technology experts in various fields. This includes our innovative, industry-leading suite of end-to-end fluid management software and infrastructure solutions. We understand the specifications of technology and the system requirements in the field. Thus, we deliver, install and maintain new advanced equipment and provide excellent after sales service.

The FAMS solution has been in the industry for many years and has been proven as a reliable and effective fuel infrastructure solution.

With the current economic environment, is it not worth managing your assets effectively?

FAMS Market Segments


Tecmo's Fuel Infrastructure solution caters for the following markets:

- Mining market
- Commercial market (Fleet, Plant hire)
- Industrial market (Contractor mining)
- Agricultural Market (Corporations)

Contact Us

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