

isupac



FUELMASTER

MADE
IN THE USA



**WE ARE THE
MISSING
IN YOUR FLEET
MANAGEMENT
OPERATION**

SYNTECH LEGACY PLATFORM

WITH ORIGINS ROOTED in providing technology for the U. S. Department of Defense, Syntech Systems was formed in 1989 as a dynamic engineering and manufacturing firm specializing in the development of advanced electronic fuels management systems, known commercially as FuelMaster.

We pride ourselves on the fact that every unit is designed, built by hand, and supported under one roof in our headquarters located in Tallahassee, Florida.

From our manufacturing and quality assurance departments to our large engineering and customer support staff, maintaining our customers' satisfaction has always been and will always be our foremost priority.

PIECE



MADE
IN THE USA

ENGINEERED BY Syntech

A TRUSTED PARTNER WITH U.S. DEPARTMENT OF DEFENSE FOR OVER 35 YEARS

During the late 1970s, Syntech Systems first engineered the Automated Fuel Accounting System used by 61 U.S. Air Force locations across the continental United States. Almost ten years later, the Air Force sought to upgrade this original system to a fully functioning Automated Fuels Service Station that would read programmable chips and operate on ground fuel mobile servicing assets.

This new system was named FuelMaster and was deployed at over 220 Air Force locations worldwide with 450 fixed units, as well as 400 mobile fuel trucks. The new design specifications required the system be user maintainable through the use of modular components and provide remote diagnostics support over voice grade telephone lines.

Over the next 15 years, the remaining branches of the U.S. Military recognized their need for a fuel management system, and FuelMaster was their system of choice. Our reputation has time and again proven an invaluable partnership with our Department of Defense customers, and we are proud that our innovation keeps fueling their fleet.



650
SITES

1,200
FMUs

33,000
AIMs

4.4
Million
TRANSACTIONS
ANNUALLY





FUELING THE FIGHT WORLDWIDE

“ The new design specifications required the system to be user maintainable through the use of modular components and provide remote diagnostics.

— United States Air Force

IS YOUR AVIATION FUELING OPERATION GROUNDED?

Built on a reputation of innovation, implementation, and support at any aviation site ranging from FBOs to ground fleet operations at large airports. We have a dedicated staff with over 100 years of combined aviation industry experience and the largest network of trained distributors.



3 LINE DISPLAY

- Monitor fueling transactions remotely from the dispenser
- Easy visibility up 100 feet day or night
- Multiple mounting options available
- Weather safe to ensure longevity

- The Industry standard for Self Service FBOs and glycol facility management
- All sites can be equipped with fixed and mobile fueling applications
- Tail Number Capture
- User friendly for both the customer and FBO operator
- Recommended by many fuel providers such as World Fuels, P66, and AvFuel
- Available on all aviation credit card networks and several bank networks for those unaffiliated airports
- PA-DSS compliant with EMU options available
- Provides verification that aircraft is grounded and fuel type is correct
- Tank Monitor Interface
- Utilizes Smart Cards, Credit Cards, and AIM for ground support equipment
- All transactions can be done over IP
- Transaction Capacity of 4000+



YOUR FIXED SITE FUEL MANAGEMENT SOLUTION

FEATURES & BENEFITS

- Each unit comes standard with two hose controllers, and can be customized for up to eight hoses
- Communicates with up to eight satellite FMUs, each handling eight hoses, for a total of 72 hoses per master FMU
- Fueling process is authorized by keypad, PROKEE, smartcard, proximity card or AIM technology
- FMU can be equipped to read fleet, aviation and standard credit cards
- Compatible with mechanical and electronic dispensers, both retail and commercial
- Transactional data can be exported to most fleet maintenance or accounting programs
- Communicates with tank monitor units and tank gauge interfaces from a variety of manufacturers
- Supports automatic and manual operation
- Enclosure: 19"W x 13"H x 10"D
Pedestal: 12"W x 48"H x 6"D
- Operating temperatures of -60°F to 140°F



AIM 2.4 TELEMATICS

- RFID system installed on vehicle & programmed with identifying vehicle information
- Gathers vehicle data such as odometer, chronometer engine diagnostics and trouble codes.
- Ensures proper fuel allocation for fleet
- Prevents cross-fueling with grade lock feature

PROKEE & SMARTCARDS

- Utilized to initiate fueling transaction
- Allows supervisor access for setting reconfiguration
- Configurable for access by user and product type

PROXIMITY CARDS

- Use with customer's existing proximity card system
- Authorizes fueling transactions by user ID

CREDIT & FLEET CARDS

- Ideal for unmanned fuel site applications
- Interfaces with several different credit card networks
- Reduces administrative billing hours



TELEMATICS

TAKING THE DRIVER OUT OF THE DATA COLLECTION PROCESS

Our patented AIM2.4 telematics device is a component of our RFID system installed on a vehicle which is programmed to collect odometer, chronometer, and engine diagnostics. This information is transmitted via radio frequency from the vehicle to the FMU without driver input, eliminating human error. It is engineered for use in a variety of vehicles across various climates and industries. AIM modules can be found mounted in municipality fleets, trucking fleets, mining operations, and hydraulic fracturing sites. All modules are certified to operate in temperatures ranging from -40°F to 185°F.

AIM

2.4

ODOMETER

Dash Odometer captures same reading as vehicle's dashboard —
No calibration required

ENGINE DIAGNOSTICS

Parameters such as Max Speed/
Engine Run/Idle/PTO Engage
Time reported

BATTERY

Minimum & Maximum
battery voltage reported

**PREVENTIVE
MAINTENANCE**

Preventive Maintenance can be
scheduled based on parameters
set in FMPlus Software

SECURE FUELING

Guarantees the fuel type and
quantity is delivered to the vehicle
through our passive RFID
technology, while capturing
vehicle ID, date and time

ENGINE OIL

Engine oil level, oil pressure and
oil temperature data reported

**DIAGNOSTIC
TROUBLE CODES**

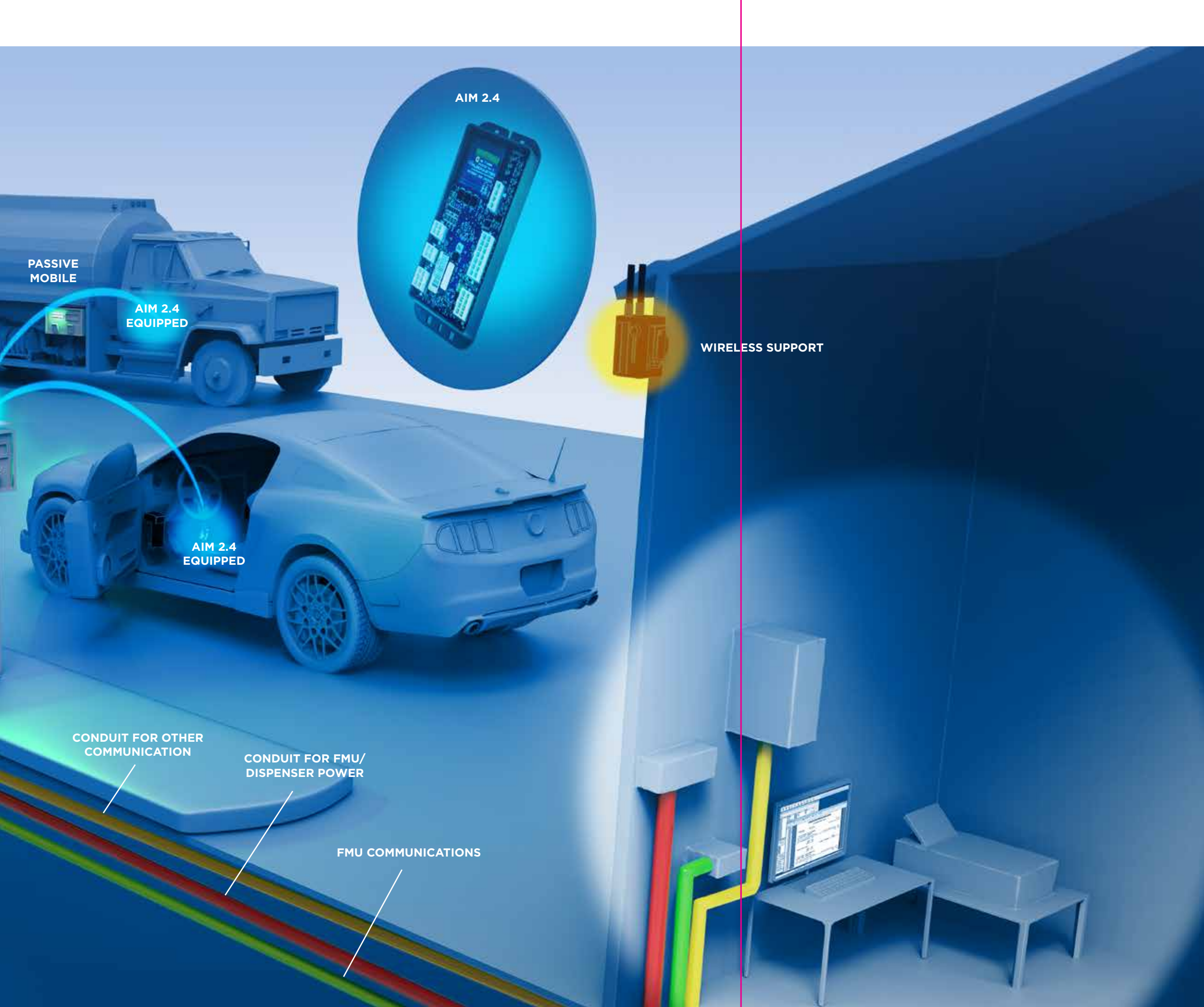
List of Active Diagnostic
Codes and the status of
“Check Engine Light”





THE SYNTECH SOLUTION

PULSER AND
PUMP CONDUIT



PASSIVE
MOBILE

AIM 2.4
EQUIPPED

AIM 2.4

WIRELESS SUPPORT

AIM 2.4
EQUIPPED

CONDUIT FOR OTHER
COMMUNICATION

CONDUIT FOR FMU/
DISPENSER POWER

FMU COMMUNICATIONS

CUSTOMIZING YOUR FUELING OPERATION

Syntech Planning Guidelines

All conduit must be metal, explosion-proof and installed in accordance with the National Electrical Codes (NEC).

FMUs should be powered from a separate power source with a dedicated 115 Volt Circuit breaker rated no less than 15 amps.

DC pulser wires and AC control wires may be routed through the same conduit providing the pulser wires are shielded and insulated for the maximum power carried through the conduit.

Telephone, direct connect, network, transaction printer, and tank monitor cables/lines may be routed together in the same conduit, but NOT through the same conduit as any AC power wires.

“ In the early years we embraced the idea that a diverse, loyal customer base would grow by delivering exceptional value through technology, equipment reliability, application flexibility, and the best customer service in the industry. With nearly 8000 customers of various sizes, and crossing into several different industries, that early idea has become reality. Our sales and project management team are here to assist you with the right Fuel and Fleet Management Solution. Give us a call - our experts are eager to configure a system to fill your needs.

— Dan Phillips, Vice President of Sales and Marketing

FUEL MANAGEMENT IN THE PALM OF YOUR HAND

■ ADAPTABLE INDUSTRY CONFIGURATION

From Slip Tanks to Oil Fields to Mining Sites, to Flightlines, our Mobile Suite of products can meet your mobile fueling needs

■ FULLY AUTOMATED

No more pencil and paper, no more illegible sales tickets, fuels sales are now automatically processed by any of our Mobile products, eliminating human error

■ FMLINK APPLICATION

Integrated software application is utilized with all our mobile products. The tablet can be pre-loaded with vehicle/user information, and at a later time, these settings can be pushed to other tablets in use

■ SIMPLE INTERFACE

Easy to use icon based interface allows for effortless user operation regardless of the task

■ TRANSACTION REPORTING OPTIONS

Transactions have the option to be either downloaded or emailed

■ INFORMATION SECURITY

Optional software package utilizes certified security to protect your information & your network from malicious or unauthorized users

■ FLEXIBLE PURCHASE MEDIA

Barcodes, Smartcards, or Magstripe cards can authorize transactions

■ POSITIVE FLOW CONTROL

Whether it's a valve, solenoid, or pump motor, any of our mobile products will control it

■ ANSI C1D2 CERTIFIED

Available for hazardous locations



- Small Volume Fueling
- True Manual Bypass
- Single Fueling Point



- Wireless download
- Configurable with AIM

FMPLUS

MANAGING YOUR FLEET'S GREATEST ASSET

CONFIGURABLE

The operating program is available in three basic configurations based on the system type for your fueling operation.

NETWORK COMMUNICATION

The island FMU and central controller communicates via telephone line, wired or wireless network connection, or direct connect cable.

PREVENTS DRIVER ENTERED ERRORS

Transaction can terminate if odometer or chronometer reading is not within specified range and confirmed by a Prokee or Smartcard.

SUPPORTS SEMI-MANUAL OPERATION

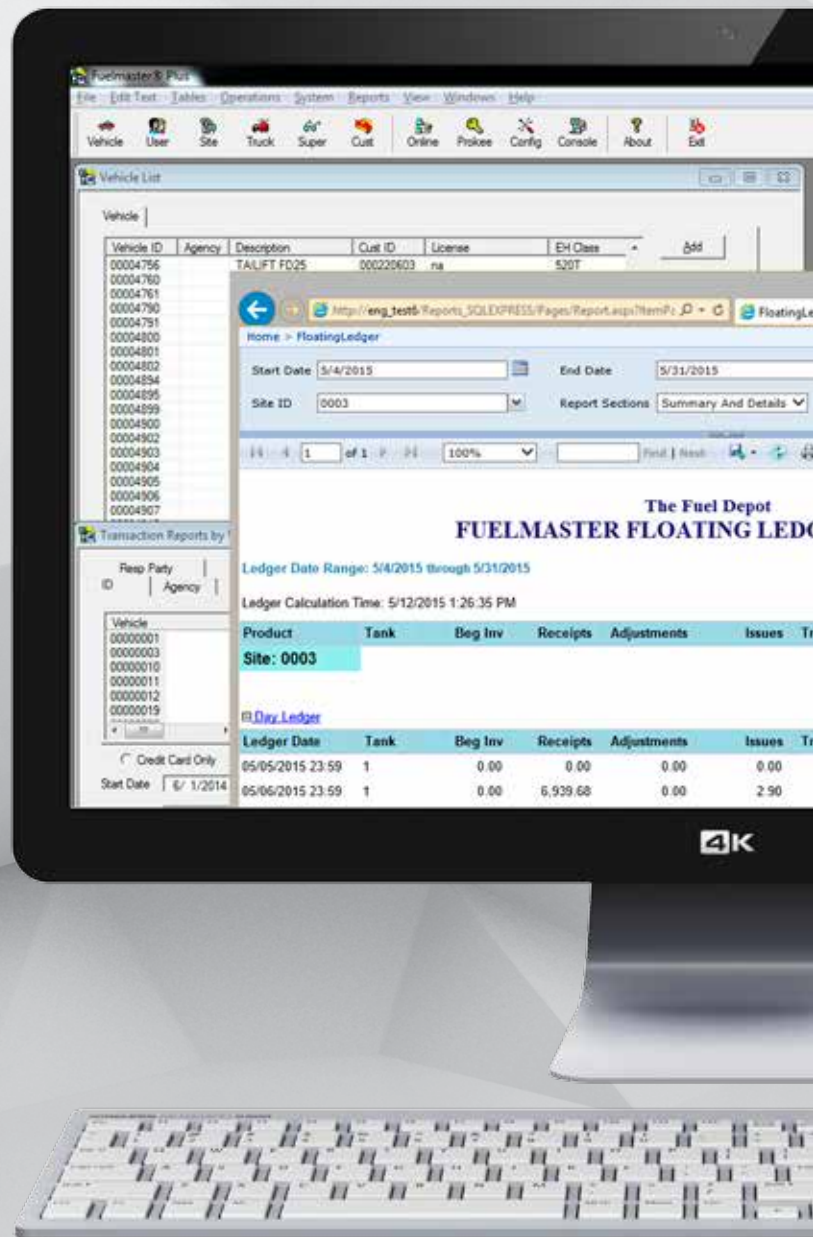
Hoses can be placed in semi-manual mode, permitting fueling without a Prokee or smartcard, while still recording time, date & amount for inventory and billing purposes.

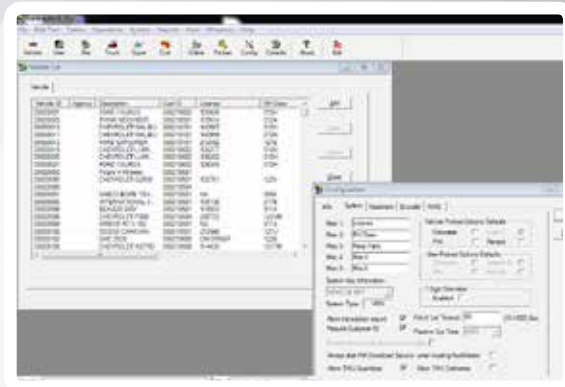
PREVENTATIVE MAINTENANCE

Configurable options allow for preventative maintenance alerts to be created and will alert driver when vehicle is due for service.

SCALABLE

No matter how large or small your fueling operation may be, our software can be configured to meet your business needs.

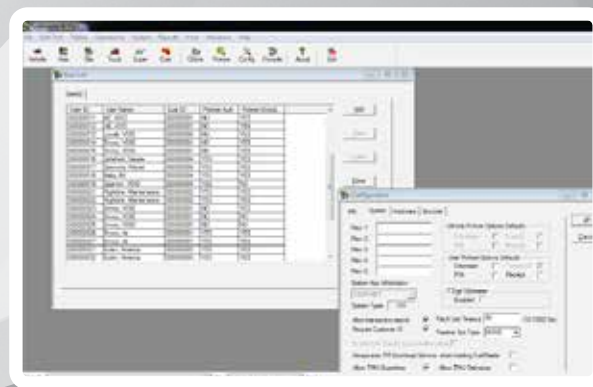




VMN SYSTEM

Verified Miscellaneous Number

- Vehicle Information is encoded on access device & the FMU prompts the user for user information
- Supports entry & verification of odometer/chronometer as well as PIN
- Commonly used with fleet or trucking companies



VVI SYSTEM

Verify Vehicle Information

- The user information is encoded on access device and the FMU prompts the user for vehicle information
- Designed to provide user fueling information when single users operate multiple vehicles.
- Authorized products & PIN info is encoded onto the user key

COM SYSTEM

Commercial

- Can be configured to use either Vehicle keys, User Keys or both
- Information that is entered is not verified, only recorded
- The most flexible system

Requirements for FuelMasterPlus Workstation

Recommended PC Requirements:

- 3.0 GHz Pentium 4 Processor
- 2 Gb of RAM
- 24x CD-ROM
- 12 Gb free Hard Drive space
- 56K Baud Analog Modem - if Syntech support is required and we cannot access your FMU over the internet
- 1024x768 Screen Resolution
- A Serial Port
- Network Connection
- USB for Key Encoding, if needed
- SQL Server 2008, 2012, 2014
- WinXP® Pro Operating System, Service Pack 2 or greater, Windows Vista, Windows 7, Windows Server 2003 - not Windows 2000

Minimum PC Requirements:

- 400 MHz Pentium II Processor
- 1 Gb of RAM
- 12x CD-ROM
- 4 GB free Hard Drive space
- 33.6K Baud Analog Modem - if Syntech support is required and we cannot access your FMU over the internet
- 1024x768 Screen Resolution
- A Serial Port
- Network Connection
- USB for Key Encoding, if needed
- WinXP® Pro Operating System, Service Pack 2 or greater

DATA DRIVING MANAGEMENT DECISIONS

FMPlus software can easily be customized to fit your operational needs by enabling you to monitor your fleet and fuel data seamlessly. It gives users the ability to view fuel transactions as well as system and vehicle diagnostic information. With FMPlus, you are only a click away from managing your fleet's greatest assets.

“ In our industry, fuel and time are among our greatest assets. Before utilizing the FuelMaster system, we managed our fuel manually across 28 terminals. We now have the ability to manage our fuel consumption from multiple locations in real time while eliminating human error. FuelMaster is the key component to not only managing our fuel, but also allows us to apply our labor resources efficiently.

— Frank Sessa, New England Motor Freight

YOUR PARTNER FOR LIFE

The only thing constant, is change. What has made us successful over the years, is our commitment to engineering products that are upgradeable and compatible with past, current and future models.

Innovative solutions are designed to integrate the latest technology with our existing customer platforms. All our customers have the ability to modernize their system by upgrading software, firmware or communication without having to purchase a new unit.

We know business evolves, and Syntech has the solution to grow with you.

“ Syntech's efforts to continually improve its FuelMaster products, develop new technologies, and provide tremendous customer support truly demonstrates that the State of Georgia has a long-term and valuable partner now and into the future.

— Ted Larabee, Director Special Programs,
Georgia Environmental Facilities
Authority, Land Resources Division



UPGRADE YOUR **OPERATION**



WE BUILT OUR REPUTATION ON CUSTOMER SERVICE

Syntech's rise to the top of the fuel management industry is centered on the idea that solid customer service keeps a solid customer base.

Customer satisfaction doesn't just extend to large or unique projects, it is woven into the fabric of our day to day operations. This is achieved by providing services that are unequalled in our industry. Our customers know that they can contact us any day of the year, at any time, and reach a real person for all their service needs.

FOR 24/7 SERVICE (800) 888-9136

**MAKING IT
RIGHT
THE FIRST TIME**



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