# SMART VEHICLE TECHNOLOGY

FUELMASTER 3500 AIM2®

FuelMaster® Fuel Management Unit (FMU) / Automotive Information Module (AIM2®)

Autonomous Fuel Control & Accounting System

Our patented Automotive Information Module (AIM2®) makes integration of technological innovations an easy process. With our new expansion capabilities, you can now have next-generation electronic technology in this year's system!

System's Components and Features:

- OBD II (On-board diagnostics) port interface for real-time maintenance and vehicle computer data acquisition (odometer, engine hours, idle time, engine error codes, etc.)

- Utilizes Flash technology for memory and upgrade capabilities

- Program real-time changes to the vehicle AIM while pumping your fuel

- No external programming accessories needed

- Ingress/egress security monitoring via gate control

- Built-in self-diagnostics of *FuelMaster®* components including fuel island hardware

- Rugged weather-proof design

- Easy installation and greatly reduced maintenance time

- Designed to take the driver "out-of-the-loop" and reduce mechanic's time and labor

- Modern state-of-the-art RF radio communications to the fuel island

- Passive capture of vehicle ID, current mileage, date, time, fuel quantity, fuel type, engine hours, PTO hours and much more

- Complete control and comprehensive security over fuel dispensers and fuel dispensed

- Implements advanced RFID tag technologies

- Wireless vehicle record updates

- AIM2® is ETL listed, CSA approved and meets FCC and IC (Canada) requirements
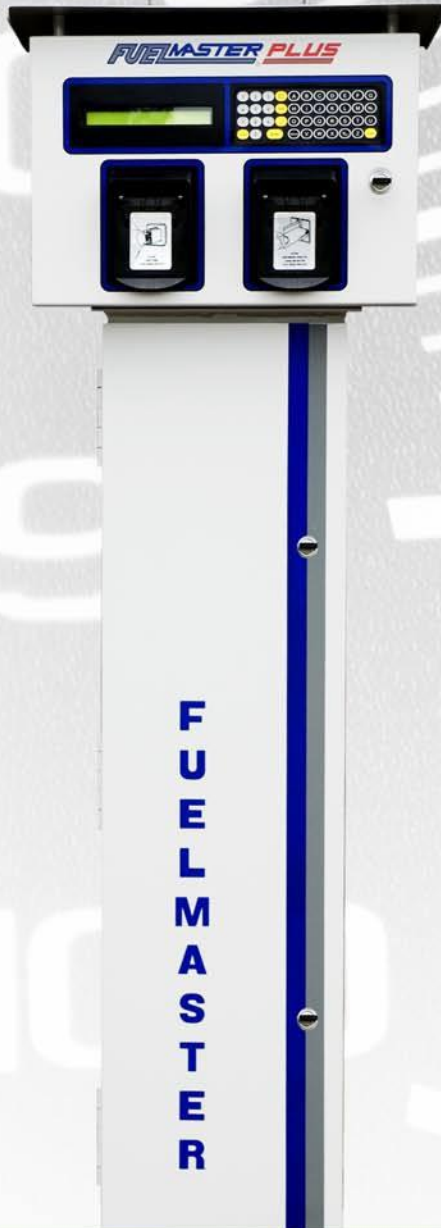
C.A.R.B. Approved
(California Air Resource Board)

Tomorrow's Technology for Today's Needs

STEP 1: The driver inserts the fuel nozzle in the vehicle.

STEP 2: RFID Tag on the fuel nozzle is interrogated by AIM2 mounted in the vehicle.

STEP 3: The AIM2 transmits RFID tag data, vehicle data and OBD II data to the FMU.

STEP 4: The FMU evaluates this data, turns on the fuel dispenser and records fuel transaction data. The FMU ends the transaction immediately when the pre-authorized quantity of fuel is dispensed or when the nozzle is removed.

AIM2®, the next generation of automated fuels accounting technology, offers an "on-board" vehicle computer interface and reduces installation time for a customer's mechanics. Syn-Tech took the driver out of the fueling process when it introduced its first AIM unit several years ago, requiring no data entry by the driver. AIM2® not only keeps the driver out of the fueling process but also takes the mechanic out of the maintenance process. AIM2® is truly a passive experience for both the driver and the mechanic. Installation is simple; however, Syn-Tech offers a complete turnkey installation package to all AIM2® customers.

AIM2® technologies, which are protected under U.S. Patent No. 5,923,572, provide a major improvement in fueling automation by eliminating the need to supply power to the fuel nozzle. Coupled with wireless transmission of data to and from the vehicle, Syn-Tech has introduced the ultimate "hands off" system to the fueling process.

AIM2® and the RFID tag technologies are certified to UL 913 and UL 1238 (U.S.) and CSA C22.2 157A (Canada). In addition, it is listed as intrinsically safe by ETL. AIM2® and its radio technologies comply with FCC regulations as defined in Part 15 Class A of FCC requirements (U.S.) and with IC ES003 requirements (Canada). No safety barriers need to be mounted in or around fuel dispensing equipment and/or fuel nozzles. AIM2® RFID tag technologies are C.A.R.B. (California Air Resources Board) approved for Stage I and Stage II vapor recovery systems.

Passive vehicle maintenance data collection at fleet maintenance facilities eliminates the need to physically connect the vehicle to diagnostics equipment to ascertain vehicle health and safety.

For added security, AIM2® continuously communicates with the nozzle mounted RFID tag after the driver inserts the nozzle. The FMU ends the transaction immediately when the nozzle is removed. This completely eliminates fuel theft.

AIM2® enables multiple points of highly accurate data capture via the fuel island, maintenance facility or gate controller to provide real-time diagnostics and prognostics.

Syn-Tech is the industry leader in RF technology. If you're looking for a truly passive system, there's only one place to find it: *FuelMaster.*®