

# FLEET GUARD

Private Refueling Solutions  
for commercial fuel sites & fleet of vehicles

Guard of your fuel site at 24/7 basis



**Any company that uses FLEET GUARD feels comfortable that:**

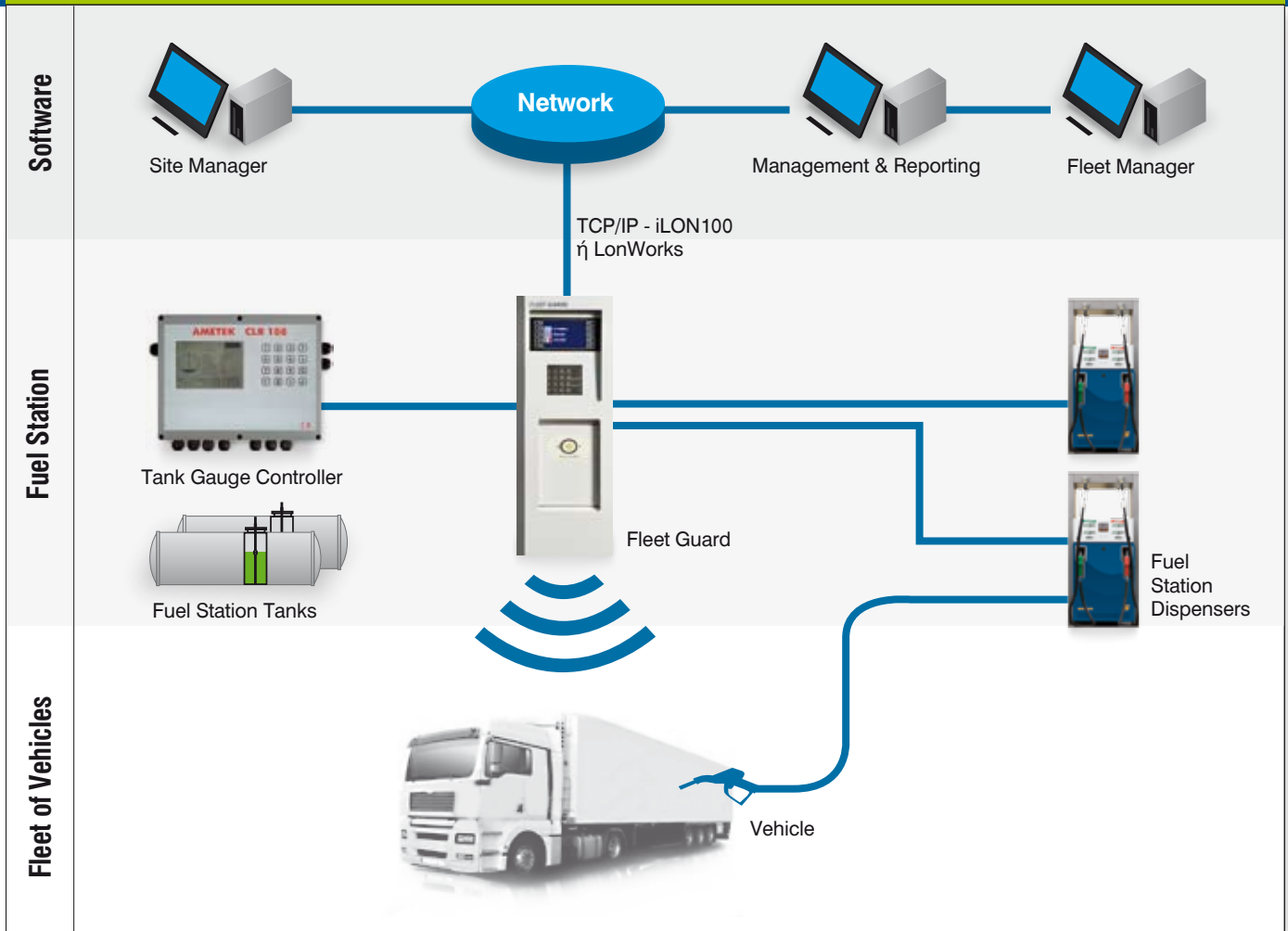
- Private fuel station operates around the clock on a secure and controlled mode.
- Fuel transaction is a simple process and is executed by the driver himself.
- Only the authorized vehicles receive fuel and no one else.
- Fuel is issued directly into reservoir of vehicle and nowhere else!
  - Each vehicle refueling is measured with highest accuracy & is registered electronically.
- System monitors and prevents product incorrect filling so that, for example, there is no possibility for a driver to refuel with diesel instead of gasoline.
- A full fuel fleet record is kept by vehicle, driver, etc replacing paperwork.
  - There is instant notification for deviations from nominal fuel consumption rates.
- Fuel balance and reconciliation is managed every day in a reliable way.

**SPYRIDES GROUP**

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## FLEET GUARD, complete system for private fuel station management. It consists of three control levels:

1. Station dispenser control unit **ACCU FUEL** or **FLEXI FUEL** (or **TRUCK FUEL** for trucks) - add-on, the magnetostrictive probes can be in station tank compartments.
2. Back-office for software for fleet of vehicles fuel management.
3. Components for automatic vehicle recognition from the dispenser which form **AUTOTAG** or **TACHOTAG** system.



Station dispenser can issue fuel only when **ACCU FUEL** sends the command and after successful sequence of vehicle authorization.

### The vehicle is authorized by means of:

- Vehicle card (transponder type) that the driver presents it on the terminal's proximity reader.
- Automatic recognition of its reservoir that is equipped with a tag of RFID technology.

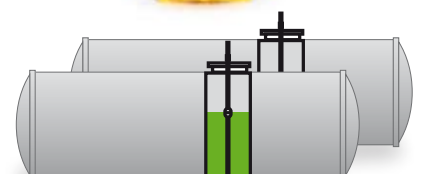
**ACCU FUEL** can control any type of station dispenser, either electronic or mechanical type. A pumping skid with flow meter can also be monitored in applications of truck loading terminals and in high flow refueling of large vehicles and caterpillars in construction sites, mines, etc.

**Spyrides SA, as an industrial manufacturer of fuel dispenser, can offer you a variety of technical solutions to suite specific needs of fuel dispensing and management. With a purchase of an ACCU FUEL unit, our company can offer you the option to replace your existing dispenser with a new one, as per type M5200, on special discount.**

In addition, you can select magnetostrictive gauging probes that are installed in station tanks to monitor fuel level and volume and water level in tank bottom. A fuel delivery is automatically being measured and reported.

Fuel temperature is measured and volumes are registered in net and compensated values.

Indications can be shown in site monitors-controllers and/or in back office software.



## Fleet Guard software for fuel management of private fleets

Data communication between back-office and fuel station is accomplished by Ethernet (Intranet – Internet) or Lonworks.

Software user has complete control over the fleet of vehicles, create new vehicle cards, drivers, configure fueling parameters (consumption, maximum quantity, etc). System compatible with Windows XP, Vista, 7, Server 2003, Server 2008 (WoW).

User edits timely reports per vehicle, group of vehicles, driver, etc and data can be uploaded to data sheets in xls form or in ascii type of files.

Fuel volumes in station tanks can be monitored by register of delivery invoices or/and by measuring volumes from tank gauging probes.



## Vehicle fuel authorization system with highest security and installation simplicity



Reservoir RFID tag  
without cables -  
ATEX certified

Dispenser Nozzle transmitter  
unit without hose cabling -  
ATEX certified

Tachograph transmitter  
in vehicle cabin -  
local cabling only

Same fleet other vehicles  
can be AUTOTAG,  
other TACHOTAG  
monitored and in  
combination with cards

### Autotag System

### Tachotag System



**AUTOTAG** system is quite simple: an identification tag is installed (without cables) on the neck of vehicle's reservoir.

Dispenser nozzle is equipped with a transmitter that "scan" the tag and transmits by RF its identity to **ACCU FUEL** receiver. Terminal is executing the check-list with authorized tags and after recognition, it commands the dispenser to issue fuel as per vehicle parameter settings.

Fuelling is controlled with the position of nozzle and if it is taken away from reservoir, flow automatically stops! If tag is dismantled from its installation kit, then its function fails, so that system is fail-safe and reliable.

**TACHOTAG** system has the same Autotag functions plus automatic tachometer reading. One 2-port 12/24 Vdc unit is installed in the driver cabin and is locally cabled with tachograph (or digital clock).

Before refueling, the odometer or operation hours indication is being transmitted to **ACCU FUEL** receiver. Second port can be connected to docking unit of driver's card so that driver can notify his id to the system automatically. **TACHOTAG** system is a choice for fully automated authorization. In the other hand, **AUTOTAG** can be smartly configured so that **ACCU FUEL** can ask driver to enter odometer reading / PIN code before issuing fuel. Either way, **TACHOTAG** or **AUTOTAG**, secures that each euro spent for fuel, goes directly to vehicle reservoir and nowhere else!

## ■ Three versions of Fleet Guard terminal



### ■ Accu Fuel

Designed for installation on the dispenser island, **ACCU FUEL** is a multi-function platform of control, with below highlights:

- Controls up to four (4) dispenser nozzles (extended up to 8 per unit) via communication protocol IFSF for electronic or pulse interface for mechanical dispenser.
- Authorization is provided by the proximity reader (by cards) or/and by the Radio Frequency (433 MHz) Receiver (by nozzle transmitter / tachograph).
- Color screen 320x240 pixel - 16 key pad
- Function menu in English, Greek, other languages on demand.
- Receipt serial printer (optional).
- ATG kit to connect to station tanks gauging probes (optional).
- Dimensions (mm): 1600 x 370 x 280 - 36 kg / Basement (mm) 430 x 340
- Electric supply: 230 Vac - 0,2 A

### ■ Flex Fuel



Designed for wall-mount installation, Flex Fuel version combines all basic station control functions into one compact.

- Dimensions (mm): 470 x 300 x 300 - 10 kg
- Electric supply: 230 Vac - 0,2 A

### ■ Truck Fuel



Truck Fuel version is applied for tank-trucks for control of refuellings of vehicles or machines being refueled by the truck itself.

- Dimensions (mm): 470 x 300 x 300 - 10 kg
- Electric supply: 24 Vdc - 0,2 A

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**Turn-key solutions for Equipment, Construction  
& Maintenance Services for fuel stations and private fuel depots**

**Fuel dispensing systems, instrumentation & controls  
for Fuel Tank Farms & Terminals – Industry – Bulk Fuel Consumers**



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