

JIGSAW

EASYFUEL

Nozzle Based Auto ID System

- Simplifies and Speeds Up the Fuelling Process
- Minimises the risk of Fuel Theft
- Stops Fuel Flow if Removed from Filler Neck
- Integrated Automatic Mileage Capture Option
- Radio Linked - No Wires down Fuel Hose
- Simply Retrofit to Standard Nozzles
- Ultra Robust, Ergonomic Design
- Available on ALL Jigsaw Systems
- Ideal for Bowser Mounted refuelling



FUELLING YOUR FUTURE

JIGSAW

Real Time Fuel Management

Our Mission ...

Jigsaw Fuel Management was established in 2007 specifically to develop a new generation of fuel management system. The developers had many years of experience designing what were at the time the best fuel management systems on the market.

The aim was to exploit the convergence of reliable Internet access and low cost, reliable mobile data communications to develop a fuel management system which had not been possible until this time.

The resulting system has changed the face of fuel management. Jigsaw now manage more than a Billion litres of fuel a year with sites not just in the UK, but across the globe.

Jigsaw strive to make the most reliable systems anywhere. The systems use switch mode power supplies to combat mains fluctuations, they are not based around PC's and they do not use membrane keypads to ensure long term reliability. The enclosure is fabricated stainless steel so that it will stand up to the rigours of any environment.



Our Partners ...

Jigsaw have developed a network of distributors who not only understand how fuel management works, but can also support your pumps and gauging equipment so that you can be confident that all work is carried out to the latest standards by professionals.

Jigsaw work with a range of suppliers to the Fuel Management Industry so that we are able to not only supply Fuel Terminals, but also to supply and advise on Tank Gauge Equipment, Flow Meters, Pumps, Solenoid Valves, Nozzles, Hoses and the rest of the equipment necessary to install and support a complete fuel management solution.

Our Customers :

Jigsaw supply fuelling control equipment to a range of customers across a wide spread of industries. Whether the vehicles are trucks, vans, trains, boats or planes jigsaw have a system to suit your needs

Jigsaw systems can manage just a few vehicles refuelling at static pumps all the way to mixed static and mobile refuelling solutions across several sites with hundreds of vehicles.

The Jigsaw Real Time Fuel Servers manage hundreds of millions of fuelling transactions and more than a Billion Litres of fuel per year on sites all over the world.

Our Products ...

- **Eclipse** - 2 or 4 Pump, AlphaNumeric Keypad, Large Character display, Pump Integrated Versions and Retrofits available.
- **Nova** - Single pump, Numeric Keypad, Mains or DC powered, Ideal for mobile refuelling.
- **TankGuard** - Tank Stock Management System - wide range of gauges supported.

Our Range of ID Options :

- RFID Tags - Including non-Jigsaw Tags
- Magnetic Cards (eg Fuel Cards)
- Jigsaw EasyFuel - Nozzle ID System
- Jigsaw Midas - Auto Hours Run Capture
- Jigsaw FuelGuard - Auto ID/ Hours Run
- Jigsaw FuelWand - Remote Tag Reader
- Jigsaw TeleTag - Auto ID

JIGSAW EASYFUEL

Auto ID Fuelling System

Simply Fuel ...

From the drivers point of view, this is the most simple system imaginable. The driver simply pulls up at the pump, inserts the nozzle and fuels.

As the nozzle is inserted, the system ID's the vehicle, checks the fuel type is allowed for the vehicle, checks the vehicle is allowed to fuel and limits the amount of fuel delivered.

There is also the option of fitting a vehicle unit which is interrogated using a low power radio link as the vehicle is fuelled. This allows the system to automatically gather mileage or hours run data without the need for driver input.

EasyFuel Benefits :

- Simple to Retrofit to Existing Nozzles (ZVA and OPW)
- Minimises Risk of Fuel Theft
- Speeds up Fuelling
- May be used along side other ID Options (eg hand Held tags, FuelGuard etc.)

Approvals :

The EasyFuel System is ATEX approved for safety, and is also approved as part of a full MID (Weights and Measures) Eclipse system.



EASYFUEL

Auto ID Fuelling System



EasyFuel Operational Overview :

1. EasyFuel Tag fitted to the vehicles filler neck
2. A Radio Nozzle Pack is fitted to the pumps filler nozzle
3. When the nozzle is inserted the tag is read and ID data is sent to the Fuel Island Terminal
4. If fitted, the Fuel Island Terminal gathers mileage/hours data from the Vehicle Unit
5. The Fuel Island Terminal request authorisation to fuel from the server
6. On completion, the fuelling transaction is passed to the server where it can be viewed immediately
7. The Jigsaw Fuel web server offers all required reporting and analysis tools

JIGSAW

FUEL

Fuel Management Software

- Simple to Understand - Minimum Training
- True Real Time system - No polling required
- Unique Vision Tiles allow at-a-glance management
- Web Based (View Anywhere)
- Real Time View across all sites and assets
- No Dedicated On-Site Software
- Only a Browser Required for access
- Desktop, Laptop, Tablet and Phone Sensitive site
- Real Time Stock Management
- E-Mail and Text Prompts
- Fully Automated Reports Generation



FUELLING YOUR FUTURE

JIGSAW FUEL

Fuel Management Software

Ground Breaking Software ...

The Jigsaw Fuel Software has been designed specifically to reflect the benefits of Real Time Fuel Management. The colour coded user interface highlights any issues as they occur, and allows the causes to be investigated easily. The unique user interface is very simple and intuitive to use requiring only minimal training and little in the way of IT experience.

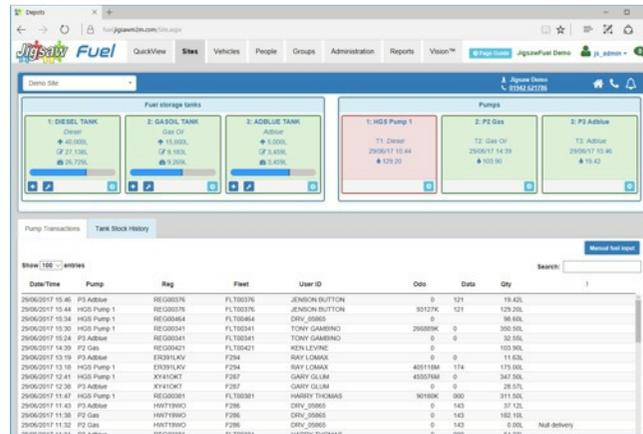
The software has been designed so that most functions can be accessed by no more than two mouse clicks.

Unique Features :

- Fully Centralised System - No on site server to manage.
- Software Updates Managed Centrally
- No Limit on Sites, Pumps, Tanks, Users or transactions - Large or small networks accommodated
- Configurable Report Templates that can be periodically auto e-mailed
- Graphical Gauge and Book Stock Comparison
- Unique Vision Tiles - Configure the site with information relevant to your business.
- Server to Sever Data Links - Where compatible, Auto Mileage Update from your vehicle tracking system.

Clear User Interface...

Above all other factors, Jigsaw have designed the user interface to be as clear and simple as possible. The site is consistent so that if you see something in red, you know there is an issue - click that warning and you see the details. The site screen is the heart of the user interface. This shows the status of all pumps and tanks on the site along with a list of all the latest fuelling events.



Whether you have one fuelling site or fifty, the data is shown in the same clear format. On larger networks, the QuickView page comes in to its own. This highlights any issues across an entire network of sites all on one page.

Real Time Stock Management :

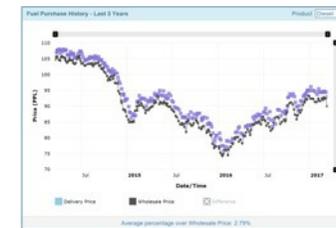
As stock deliveries are entered, and transactions are received from your site, the fuel stock situation is updated on the web service. With a connected tank gauge, you get a real time comparison between book and gauge stock highlighting any issues in real time.

Jigsaw Vision™ Tiles :

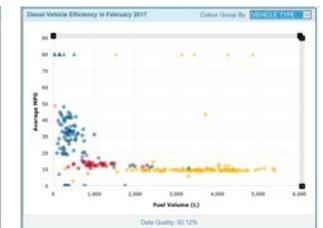
The Jigsaw Fuel system has the Unique Vision Tiles which show real time information answering specific questions the user may pose about vehicles, people, fuel stocks, efficiency and even CO2 emissions.

Here are a few of an ever growing suite of jigsaw Tiles :

- Annual Fuel Usage Plot - 3 Year Overlay
- Unique Fleet "Swarm" Plot easily highlights mis-performing vehicles
- Fleet Highest Fuel Usage
- Driver Highest Fuel Drawings
- Fuel Price Plot - Direct Comparison of your purchase price to UK Average Price.
- CO2 Emissions equivalence Tile
- Unfuelled Vehicle Tile - Updated every Minute - ideal for bus refuelling operations



Average UK Fuel Stock Price



Fleet Efficiency "Swarm" Graph

Real Time Support :

As your Support Agent can view the same data as you, at the same time, any issues raised can usually be resolved during a telephone conversation so that support is fast and efficient.

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