



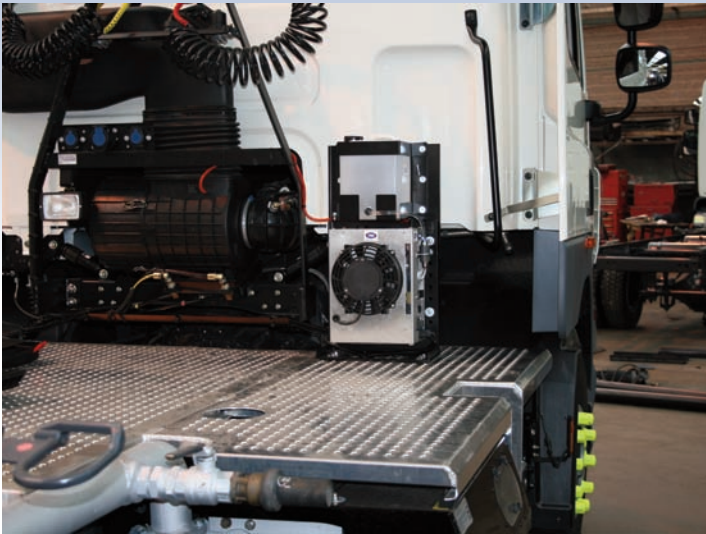
0800 0181 221

www.tadcomms.co.uk

email: sales@tadcomms.com

fax: 0845 869 4493

The Hydrogen Generator



The Hydrogen Generator linked to the FM4 Vehicle Tracker, will enable users to Proactively Monitor the unit and show when the water needs filling, electrolyte replenishing or a service flush. This will keep the unit supplying the correct Hydrogen Oxygen mix to the vehicle engine for peak performance.

Added feature will be the vehicle tracking, showing Driver hours, stop/drive times, Routes with all the usual Geo-fences and reporting features.

Extra reporting can be brought back from the Engine by monitoring the Can-Bus Readings, this will give fuel consumption, running hours, battery volts etc.

- Reduce your Diesel Fuel Costs. **Savings of up to 20%**
- Only Uses distilled water with a weak electrolyte additive
 - Suitable from Panel vans up to Artic Trucks
- **Pay back within 20 weeks**





We are a leading supplier and installer of after market vehicle accessories

introducing...

HYDROGEN GENERATOR HY-24T2

Saving you money at the pump!

How it works...

A small quantity of Browns gas (a mix of hydrogen and oxygen) is injected into the engine to make fuel burn more efficiently. This then allows better MPG and lower emissions. The gas is produced from the electrolysis of water, which uses electrical current generated by the alternator, enabling previously wasted fuel to produce more power.

This product is designed specially for the HGV diesel engine market. We offer a standard 24V version and a 12V version for smaller vans.

Our units contain microprocessor control to maintain a preset current and temperature. The limits can be re-programmed on the vehicle by service personnel to optimise the working parameters to suit the ambient environment.



As the installation does not involve modifying any part of the engine or fuel system it does not invalidate any warranty on the vehicle.

Built in the UK to exacting standards, we offer a high specification at a competitive price. Running costs are minimal, approximately 5p per 40 hours of running time.



TAD Communications

Unit 3 Peerglow Estate, Olds Approach Tolpits Lane,
Watford Herts WD18 9SR • E sales@tadcomms.com
T 0800 0181 221 www.tadcomms.co.uk



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Technical Specifications

Main Generator

Voltage:	24v , (12v to order)
Current:	16A nominal, 20A maximum
Gas production:	1 litre /min@ 15A on 24v. 1.5ltr/min at max operating current 0.8 litre/min @ 15A on 12v. 1.2ltr/min at max operating current
Water consumption:	1 ltr per 40 hours running (average)
Water capacity:	1.6 litre from empty, 1.4 litre to re-fill from low
Electrolyte:	Sodium Hydroxide. 0.5% solution when full
Service interval:	Approximately every 20 refills
Product life:	5 years average daily use - can be reconditioned
Size:	250 x 330 x 235 mm
Weight:	Empty: 14kg / Full: 15.5kg
Mounting:	4 fixings on 210mm x 280mm centres

Display unit

Indicators:	Unit on • Empty • Low level/Service due • Temperature
Size:	60 x 40 x 20mm flange mount to flat service
Cable:	5 metre standard, longer to order



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T 0800 0181 221 www.tadcomms.co.uk

TR. 56AG - BERLIN

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GPS / GSM (GPRS + SMS) Vehicle Tracking Solutions

FM4100 is a terminal with GPS and GSM connectivity, which is able to get device coordinates and transfer them via GSM network. This device is perfectly suitable for applications where location acquisition of remote objects is needed. So you can track your remote objects (trucks, cars, ships etc) quickly and easily.

It has option of rechargeable battery inside and special controller for power management. Also there is an option of using external backup battery. Thus it can operate for up to 48 hours in Normal (Sending via GPRS) mode with external backup battery. FM4100 can perform tasks on remote objects, such as monitoring temperature, engine status, fuel consumption, controlling truck's door etc.

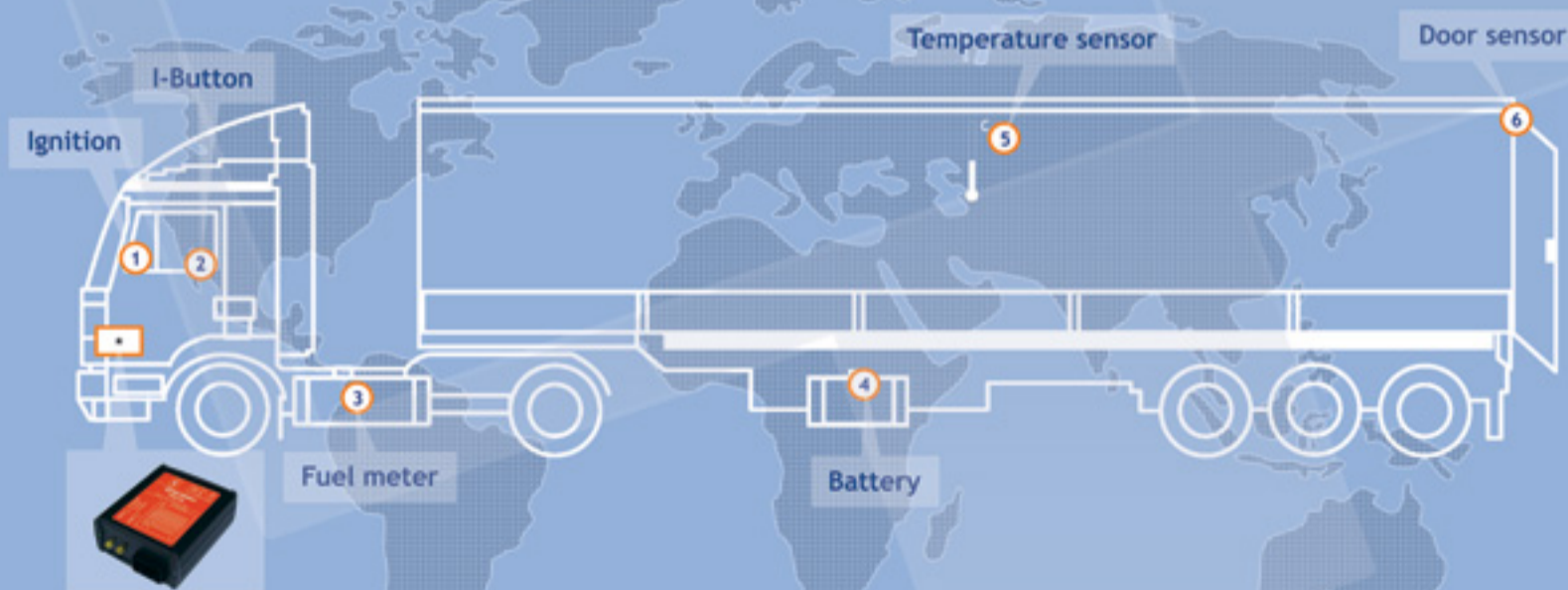
In case of losing connection FM4100 can store up to 8000 records (optionally 64000 records), and once the connection is established the device will send stored data via GPRS. So you won't lose your data (coordinates, sensors data and ect.).

The aluminium case of the device is very robust and perfectly suitable for installation into harsh environment.

It is an advanced solution for a very reasonable price.



FM4100



Monitor:

- 1 See when ignition is ON or OFF
- 2 Identify drivers with I-Button
- 3 Monitor fuel consumption
- 4 See when battery voltage is falling
- 5 Monitor temperature level in refrigerator
- 6 See when doors are open or closed

MAIN FEATURES:

- Track your remote objects (trucks, cars, ships etc) quickly and easily.
- The device supports the following GSM bearers:
 - o GPRS class 10 (up to 85,6 kbps);
 - o SMS (text/data);
- Quad-band GSM - 900 MHz / 1800 MHz; 850 MHz / 1900 MHz.
- The aluminium case of the device is very robust and perfectly suitable for installation into harsh environment such as cars, trucks, boats or other moving objects.
- Option of internal (or external) rechargeable battery with charge controller.
- FM4100 has 4 digital inputs, 4 digital outputs and 4 analogue inputs, which could be used for performing tasks on remote objects, such as monitoring fuel tank level, engine status, or controlling truck door etc.
- FM4100 has 1-Wire® I/O protocol integrated for temperature measuring or key ID identification.
- FM4100 has optional CAN interface for FMS interface of trucks, which enables data acquisition from trucks on-board computer.
- FM4100 has RS232 port which could be used for external peripheral data acquire.
- Voice function.
- 3 LED indicators: "Modem", "Status" and "Navigate".
- The package includes antenna, I/O cables and data cables.
- Teltonika's firmware for the device enables such functions as:
 - o GPS and I/O, 1-Wire, CAN data acquisition
 - o External sensors connection capability
 - o Real Time tracking
 - o Smart algorithm of data acquisition (time and distance based)
 - o Sending acquired data via GPRS (TCP/IP and UDP/IP protocols)
 - o Smart algorithm of GPRS connections (GPRS traffic saving)
 - o Flexible configuration of data sending in roaming networks (depending on GSM providers list)
 - o Events on I/O detection and sending via GPRS or SMS.
 - o Scheduled 24 coordinates SMS sending
 - o Multi geofence zones (rectangular or circle)
 - o Sleep mode (saving vehicle's accumulators)
 - o Acceleration detection (harsh breaking and accelerate measuring)
 - o OTA (firmware updating via GPRS)
 - o Real time internal processes monitoring
 - o Authorized numbers list for commanding



FM4100

GPS/GSM Vehicle Tracking Solutions

*Service availability and maximum speed depends on your GSM operator.

The specifications are subject to change without prior