

For Automotive Professionals



# TMD SAFETRAILER

TEXA Mobile Diagnostics for SAFETRAILER

TEXA



TEXA is the leading Italian company in multi-brand diagnostics for cars, motorbikes and commercial vehicles.

TEXA products and services are technological solutions which provide straightforward and efficient support to all workshops.

The quality of TEXA products has resulted in the company being recognised by International organisations which have awarded it prestigious prizes. TEXA's quality is not only appreciated in Europe but, also, by over one hundred countries where TEXA sells its products.

TMD, TEXA MOBILE DIAGNOSTICS are the new frontier in TEXA technology and creativity.

New scenarios which can change the current concept of service management in terms of the task length and working environment. What was until recently only possible in theory has now become reality.

A specific version of TEXA MOBILE DIAGNOSTICS (all designed, developed and manufactured in Italy) is available for each type of vehicle, from cars to commercial vehicles and trailers.

TMD. Technologically very different.

# TMD SAFETRAILER.

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# TOTAL CONTROL

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The tool used for efficient fleet management.

Based on TEXA's fifteen years experience in the automotive industry; this is its new challenge.

The remote monitoring solution of vehicles and goods which is simple and innovative.

The complete answer for trailer logistics.

# TMD SAFETRAILER

## THE NEW FRONTIER IN FREIGHT MANAGEMENT

**Remote control, security, monitoring of service activities and reliability.**

**One tool, many advantages.**

GPS positioning and communication via GSM/GPRS represents modern technology. Although it has not yet reached its full potential, it offers many advantages which may be applied widely within various fields and applications.

Within the freight sector, TEXA TMD SAFETRAILER allows you to establish the location of your vehicles (trailers, plant and mobile power generators) at any time and exchange information in real time. TMD SAFETRAILER is a robust control unit which can be easily installed on the trailer without the need to modify with the original wiring.

This is an innovative tool featuring Fleet Management software which can monitor deliveries, goods and the condition of trailers on a continual basis.

The efficient and safe management of tractor and trailer connection is assisted by TMD SAFETRAILER.







# REMOTE CONTROL JUST ONE OPERATIONAL “BRAIN”

**Travelling or on a break?**

**Coupled or uncoupled? Loaded or unloaded?**

**Everything is visible from the office (or the mobile phone).**

TMD SAFETRAILER is an advanced tool used to locate trailers via satellite. Wherever the load may be; a user-friendly interface displays easy to read information in real time. The display program may be easily installed onto a normal office PC, a smartphone or hand held unit which provides the user with information at all times. The fleet manager may always keep track of the trailer.

The GEOFENCING function allows points of interest along the route to be set as desired, such as the entrance and exit, of loading/unloading areas,

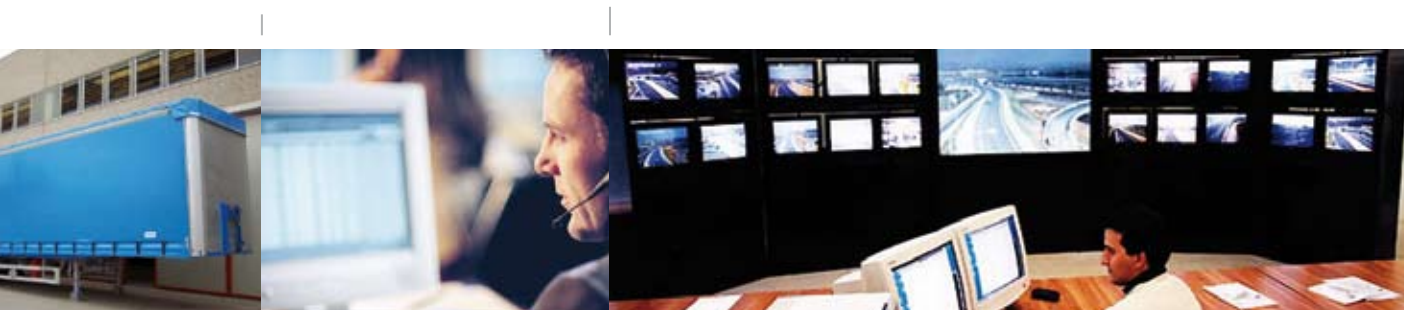
motorway exits, service areas, overnight stays etc. When the trailer passes these areas, an instant signal is sent.

TMD SAFETRAILER establishes the position of the vehicle and the recorded route from one depot to the next in real time. Optional messages may be sent via SMS to a mobile phone. This allows the fleet manager or their assistant to be notified at any time, of delays or problems regarding the delivery of goods, even if they are not located at the control station (PC or smartphone/hand held unit).

TMD SAFETRAILER may be integrated with business management software and will increase efficiency. Access to this information is reserved for the companies operators. A “**temporary user**” option allows this information to be accessed with a password which expires after a certain period.

This way, for example, even the customer can check the status of their shipment at all times.

Only TMD SAFETRAILER users may offer their customers piece of mind with this service!





## MAIN FEATURES

- Simultaneous web access via different devices such as laptop, smartphone, hand held unit.
- Notifications via SMS are available.
- GEOFENCING: the manager is notified when the vehicle passes set points of interest and enters-exits specific areas
- The two TMD systems automatically communicate between together without the use of any cables.

## ADVANTAGES AND SAVINGS FOR YOU

- Total control over the vehicles
- Instant information (even available to the customer)
- Information on driver behaviour



# SECURITY

## Where is it?

**It is no longer a concern.**

**The trailer is always in full view.**

There are dangers wherever you go. Expensive goods must travel many kilometres and often sit in service areas and warehouses before reaching their final destinations.

TMD SAFETRAILER is the ideal travel companion as it provides security and is very flexible. The motion sensor will notify the control station of any unauthorised movement of the trailer. Unauthorised coupling is monitored by specific devices which will send the fleet manager information via SMS.

The trailer door can be fitted with a sensor which enables TMD SAFETRAILER to monitor any unauthorised opening.

The control station will be notified of any accidents, collisions or damage.

In order to ensure further control of the trailer; TMD SAFETRAILER can also be linked to a remote surveillance centre which will allow the vehicle to be monitored 24 hours a day.

## MAIN FEATURES

- Coupling sensor: signals any attempts of hitching to a tractor unit.
- Door opening sensor: monitors any attempts of tampering or unauthorised access.
- Motion sensor: indicates any unauthorised movements or violent impacts
- Intrusion sensor: monitors any attempts at tampering with the control unit

## ADVANTAGES AND SAVINGS FOR YOU

- Instant knowledge of any dangers or problems
- Control over the condition of the goods
- Constant updates in emergency situations
- It is possible to create documents which may be used for any disputes or claims.







## SERVICE ACTIVITIES

### How much longer...?

#### TMD SAFETRAILER will tell you.

With the needs of the fleet manager in mind; TEXA has also developed a service program for trailers which generates graphs and easy to read indicators.

The activities are planned based on pre-defined service charts, scheduled according to times or thresholds – which may be customised when required - relating to operating hours, kilometres travelled or time elapsed since the last check. TMD SAFETRAILER can measure the effective data and notify the manager of the exact moment when routine maintenance is required.

The fleet service personnel may rely on this invaluable support system to aid any maintenance and

service plans.

The program developed by TEXA for TMD SAFETRAILER automatically records the data on the service operations, including the date, mileage and any remarks: the service chart can be created or modified at any time, starting from a list which includes all the required operations.

### MAIN FEATURES

- Information on distance travelled, time and average speed of the trailer over a certain distance.
- Setting of service operations
- Complete interface with graphs and monitored use.

### ADVANTAGES AND SAVINGS FOR YOU:

- Minimum down time the vehicle is off the road (scheduling maintenance)
- Efficient workshop planning
- Optimum productivity of each trailer.



# RELIABILITY

## How?

**Simple, solid and safe.**

TEXA focuses on care and attention to detail.

TMD SAFETRAILER is designed to withstand physical and mechanical stress.

The system is completely sealed and it is liquid and dust resistant. As it is fitted with a special intrusion sensor; to prevent tampering.

TMD SAFETRAILER is simple to install, and when replacing a trailer, the user can simply transfer the system from one trailer to another.

The battery is automatically recharged by the trailer's power supply. However, even when the

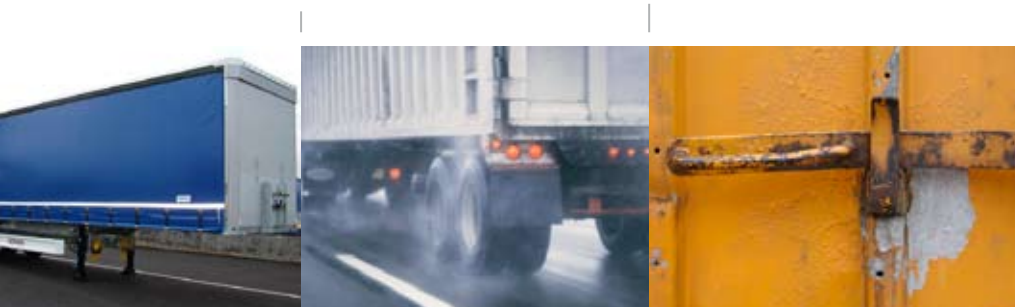
trailer has not been used for several months; it will continue to send the required data as it possesses approximately six months power reserve. The TMD SAFETRAILER will send to the fleet manager notification by SMS if the battery voltage becomes low.

## MAIN FEATURES

- IP 65 protection
- European Directive compliancy.
- CE certification by TÜV
- Minimum guarantee of 6 months' battery life with the trailer uncoupled.
- Simple installation

## ADVANTAGES AND SAVINGS FOR YOU:

- Minimum costs which are easily paid back over the short term
- Quality and long life
- Adaptability and consecutive operation on all trailers





# TECHNICAL SPECIFICATIONS

## TMD SAFETRAILER

### SYSTEM COMPONENTS

- GPS positioning system for trailers, plant, generators, etc.
- Communication via GPRS/GSM
- Web application for fleet and service management.

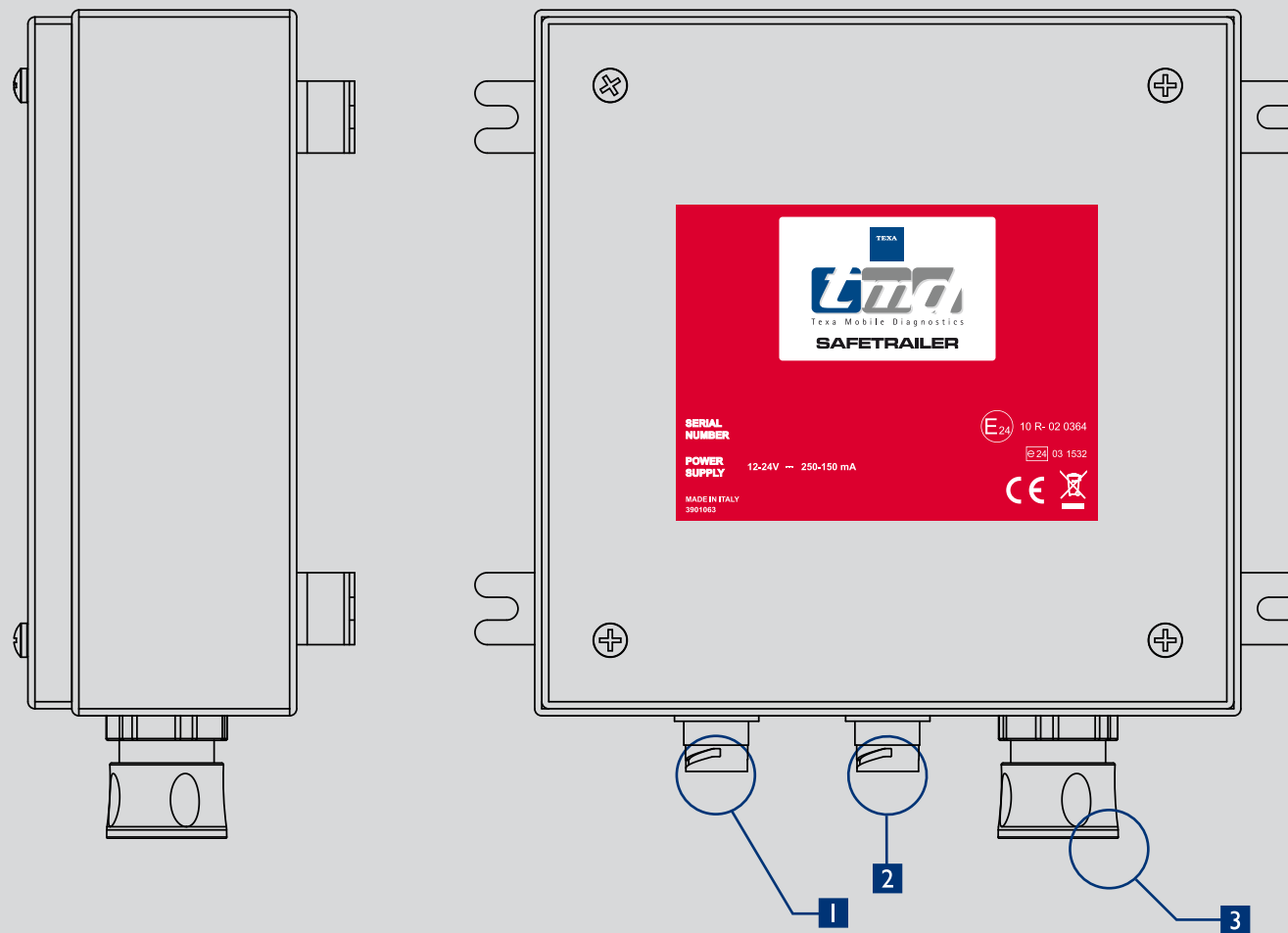
### ALARM INFORMATION

- Automatic alarm notification in the event of any unauthorised movement of the vehicle. This is also active when the vehicle is disconnected and there is no power to the TMD SAFETRAILER.
- Automatic warning if the alarm is activated. Also active when the vehicle is disconnected and there is no power to TMD SAFETRAILER;
- Battery charge check if the vehicle is stationary for an extended period outdoors:
- Automatic warning when the battery is almost flat.
- Periodical monitoring of an external analogue signal with automatic warning when set thresholds are exceeded;
- SMS messages may be sent to one or more mobile phone numbers upon receipt of any alarm signals.

### TECHNICAL SPECIFICATIONS OF TMD SAFETRAILER UNIT

- Operating system: Embedded Real Time Kernel
- CPU: ARM7, 32-bit RISC CPU, 50MHz
- RAM: 64 Kb
- FLASH: 256 + 256 Kb
- GPRS module: Quad-Band Class 10
- GPS module: ARF STAR III, High sensitivity
- Sensors: intrusion, motion, battery charge;
- Inputs: RS232 serial for connection to other devices;  
digital input for alarm signal;  
digital input for system monitor;  
analogue input for system monitor;
- Battery: rechargeable lead battery, extended autonomy (approximately 6 months) and able withstand high temperatures ( $\sim 80^{\circ}\text{C}$ );
- Power supply: direct from 12 V to 24 V vehicle battery
- Operating temperature:  $-40^{\circ}$  /  $+85^{\circ}$
- Protection against dust/liquids: IP 65
- Weight: 4500 g
- Dimensions: 235 x 201 x 84 mm
- Standards: Compliant with Directive 2006/28/EC and UN-ECE regulation R10

- 1 Power supply connection
- 2 Serial connection
- 3 Antenna connection





**TEXA**

For international customers:

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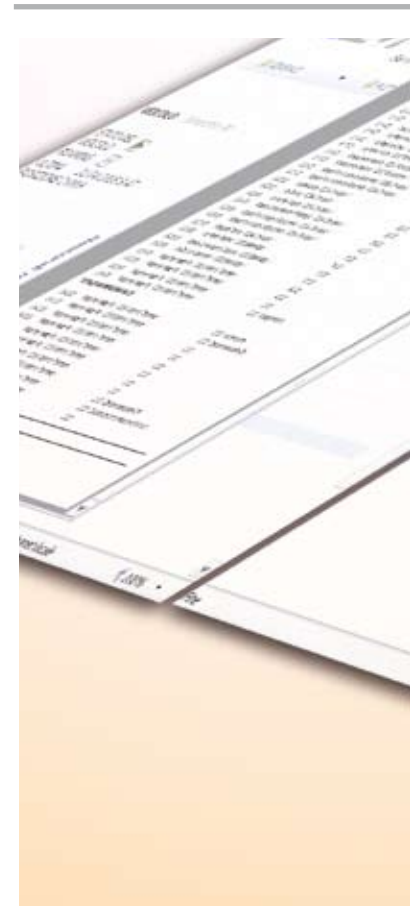
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