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# TMD MKG SA INSTALLATION MANUAL

## **REVISION OF THE MANUAL**

This document is revision **02** of the **TMD MKG SA** technical manual.

Issue Date: **23/09/2022**

# 1 INTRODUCTION

Thank you for choosing TEXA TMD for the global management of your fleet.

We are certain that you will get the greatest satisfaction from it and receive a great deal of help in your work.

Please read this instruction manual carefully and keep it close at hand for future reference.

This manual shows and describes standard and optional features.

Therefore, the tool you have purchased may not be equipped with certain features or elements described in this document.

Reading and understanding this manual can avoid damage to things and injury to people due to an improper use of the tool. They cannot, however, replace or complete the skill of the professionals for whom the tool is intended.





















The data, features and descriptions contained in this manual are provided for informative purposes only. They are not binding for TEXA S.p.A., which reserves the right to carry out any changes deemed necessary in order to improve the product, or for any technical or commercial need, at any time and without prior notice.




Texa S.p.A. declines any responsibility for damages to things or persons resulting from operations performed based on possible incorrect or inaccurate information contained in this manual.

Reproduction, whole or in part, of this manual in any form without written authorisation by the manufacturer is strictly forbidden.

## 2 LEGEND OF THE SYMBOLS USED

Some of the symbols indicated below may not be used in the manual.

	Toxic material hazard		Floor level obstacle warning
	Explosive material hazard		Laser beam hazard
	Electric shock hazard		Low temperature danger - freezing
	Electromagnetic field hazard		General Risk
	Flammable material hazard		Obligation to read the instructions
	Hot surface hazard		Safety glasses required
	Corrosive substance hazard		Protective gloves required
	Risk of noise level above 80 dbA		Protective clothing required
	Moving Parts Risk		Respiratory protection required
	Risk of crushing hands		Disconnect mains plug from electrical outlet

 <b>DANGER</b>	<p>This is not a safety symbol.</p> <p>It indicates a hazardous situation which, if not avoided, will result in serious permanent injury or death.</p>
 <b>WARNING</b>	<p>This is not a safety symbol.</p> <p>It indicates a hazardous situation which, if not avoided, may result in serious permanent injury or death.</p>
 <b>CAUTION</b>	<p>This is not a safety symbol.</p> <p>It indicates a hazardous situation which, if not avoided, may result in minor injury.</p>
<b>NOTICE</b>	<p>This is not a safety symbol.</p> <p>It indicates a hazardous situation which, if not avoided, may result in material damage.</p>

## INFORMATION

This is not a safety symbol.

It indicates important information.

### 3 SPECIFIC SAFETY RULES FOR INSTALLING TMD MKG SA

The technology used for the design and manufacturing control of the **TMD MKG SA** makes it a reliable, simple and safe device to install and use.

The personnel in charge of installing the remote diagnostic tools are required to follow the general safety regulations, to use **TMD MKG SA** devices for their intended use only and to carry out the maintenance correctly, as described in this manual.

All the requirements based on the following must be assessed and applied:

- *Labour inspectorate.*
- *Trade associations.*
- *Vehicle manufacturers.*
- *Anti-pollution regulations.*

#### 3.1 Glossary

**Operator:** a qualified person responsible for installing the remote diagnostic device.

**Device:** any **TMD MKG SA** device.

#### INFORMATION

*The definition of "operator" cannot be applied to minors or to people with reduced physical, sensory or mental capabilities or without any experience or knowledge required.*

### 3.2 General Rules



The operator must have carefully read all the information and instructions in the technical documents provided with the tool.

If the operator is not able to read this manual, the operating instructions and safety indications must be read and discussed in the operator's native language.



#### CAUTION

- *The operator that works on vehicles must have basic qualifications and knowledge of mechanics, automotive engineering, car repair and of the potential dangers that may arise during self-diagnosis operations.*
- *The operator must carefully follow all the instructions provided in the technical documents.*
- *The operator must be completely clear-headed and sober when installing and using the device; taking drugs or alcohol before or when installing and operating the device is strictly forbidden.*
- *The operator is required to wear adequate personal protective equipment (PPE) throughout the installation of the device.*
- *The operator must periodically inspect the device, making sure it is in good condition and replacing it if it is damaged.*
- *The operator must periodically check the parts that are subject to wear and replace them if necessary, using only original spare parts or spare parts approved by the manufacturer.*
- *The operator must stop using the device immediately should any failure occur, and promptly contact the technical assistance.*
- *Do not remove or damage the labels and the warnings on the device; do not in any case make them illegible.*
- *The operator is prohibited from CARRYING OUT ANY OPERATION NOT EXPRESSLY REQUESTED AND INDICATED.*
- *The equipment can be used by children aged 8 years and above and persons with reduced physical, sensory or mental capabilities, or lack of experience or necessary knowledge, as long as they are supervised or given instructions concerning safe use of the equipment and understand the hazards involved.*
- *Children must not play with the equipment.*
- *Cleaning and maintenance must not be carried out by children without supervision.*

### 3.3 Operator Safety

#### CAUTION



The device was manufactured to be electrically safe and insulated and to work with specific supply voltage levels.

Improper use may expose the operator to the risk of electric shock, even though of low intensity.

#### Safety Measures:

- *Wear adequate personal protective equipment during all the operating phases.*
- *Do not handle or touch the device with wet hands.*
- *If liquid should penetrate inside the device, contact technical assistance.*
- *Do not wear metal rings or bracelets when working on batteries.*

#### WARNING



The device was manufactured to be electrically safe and mechanically resistant.

However, it is necessary to reduce the risk of damages to the device that may cause burns.

#### Safety Measures:

- *Avoid sparks or flames near the installation.*

#### CAUTION



If the device gets wet or damaged, or comes into contact with liquids, this may cause short circuits, fire, material damage or serious injury.

Never use a wet or damaged device.

### 3.4 Device Safety

#### NOTICE



***The device was manufactured to be mechanically resistant. Careless use and excessive mechanical strain may impair its efficiency.***

#### Safety Measures:

- *Do not drop, shake or knock the device.*
- *Do not carry out any type of intervention that may damage the device.*
- *Do not open or disassemble the device.*
- *Make sure the device is properly fastened before moving the vehicle on which it is installed.*

#### NOTICE



***The device was manufactured to be electrically safe and to work with specific supply voltage levels.***

***Failure to comply with the specifications related to the power supply may impair its efficiency.***

#### Safety Measures:

- *Do not wet the device with water or other liquids.*
- *The device's power supply must always be connected following the indications provided by the Assistance Service.*
- *Do not use external batteries to power the device.*
- *Wear the most suitable personal protective equipment to avoid static electricity.*

#### NOTICE



***The device was designed to be used in specific environmental conditions.***

***Installing and using the device in environments with temperatures and humidity that differ from those indicated may impair its efficiency.***

#### Safety Measures:

- *Position the device as indicated in this manual.*
- *Do not expose or install the device near sources of heat.*
- *Always place the device in a dry area.*
- *Do not expose the device to rain or water jets.*
- *Do not use corrosive chemicals, solvents or harsh detergents to clean the device.*

### 3.5 Safety during the Installation

#### NOTICE

**The installation of the device was carefully tested by qualified personnel in TEXA.**



**You must follow some indications provided by the vehicle manufacturer in order to install the device correctly.**

#### Safety Measures:

- Follow the indications provided in the vehicle's manual carefully to disassemble the plastic parts and the access to the compartments.
- Do not compromise in any way the quality of the electrical and mechanical OEM wiring.
- Make sure the electric cables, the wiring in general, the fuel hydraulic pipes and the safety pneumatic devices of the vehicle are not damaged during the installation.
- Do not change the current flow of an OEM circuit by cutting it off, increasing it or mechanically changing it cables if not permitted by the vehicle manufacturer.

#### ! CAUTION



**The device must be installed so as to ensure it can work correctly and safely.**

**Make sure the installation does not interfere with the operation of the vehicle controls.**

**Make sure the product's position does not compromise safety when driving the vehicle.**

#### Safety Measures:

- Inform the driver that the device must not be moved in any way or for any reason from the location where it was installed.

#### ! CAUTION



**MAGNETIC SOURCES (for example: loudspeakers) MAY ACTIVATE THE DEVICE INAPPROPRIATELY, REDUCING THE BATTERY LIFE.**

#### Safety Measures:

- Do not install the device near magnetic sources.

#### NOTICE



**At the end of the installation, you must restore the initial conditions of the vehicle.**

#### Safety Measures:

- Restore any OEM device (e.g.: covers, compartments, plastic parts, seals).
- Replace the fastening elements that are damaged.

## 4 OPERATION OF THE RADIO DEVICES

### Wireless connection with Bluetooth, Wi-Fi and 2G / 3G / 4G technology

The wireless connectivity with the Bluetooth, Wi-Fi and 2G / 3G / 4G technology is a technology that supplies a standard, reliable method to exchange information between different devices, using radio waves. Other than TEXA tools, many more products use this technology, such as cellular phones, portable devices, computers, printers, photo cameras, Pocket PCs, etc.

The Bluetooth, Wi-Fi and 2G / 3G / 4G interfaces look for compatible electronic devices according to the radio signal they emit and establish a connection between them. TEXA tools select and only prompt you with compatible TEXA devices. This does not exclude the presence of other sources of communication or disturbance.

THE EFFICIENCY AND QUALITY OF BLUETOOTH, Wi-Fi AND 2G / 3G / 4G COMMUNICATION MAY BE INFLUENCED BY THE PRESENCE OF RADIO DISTURBANCE SOURCES. THE COMMUNICATION PROTOCOL HAS BEEN DEVELOPED TO MANAGE THESE TYPES OF ERRORS; HOWEVER, IN THESE CASES COMMUNICATION MAY BECOME DIFFICULT AND CONNECTION MAY REQUIRE SEVERAL ATTEMPTS.

SHOULD THE WIRELESS CONNECTION ENCOUNTER SERIOUS PROBLEMS THAT MAY COMPROMISE A REGULAR COMMUNICATION, THE SOURCE OF THE ENVIRONMENTAL ELECTROMAGNETIC INTERFERENCE MUST BE IDENTIFIED AND ITS INTENSITY REDUCED.

Position the tool so that the radio devices it is equipped with can work properly. In particular, do not cover it with any shielding or metallic materials in general.


## 5 ENVIRONMENTAL INFORMATION



Do not dispose of this product with other undifferentiated solid waste.  
For information regarding the disposal of this product please see the pamphlet supplied.

## 6 REGULATORY INFORMATION

### Simplified EU Declaration of Conformity

	<p>TEXA S.p.A. declares that the equipment type <b>TMD MKG SA</b> is compliant with the following directives:</p> <ul style="list-style-type: none"><li>• <i>RED 2014/53/EU</i></li><li>• <i>RoHS 2011/65/EU</i></li></ul> <p>The complete text of the EU declaration of conformity is available at the following Internet address <a href="https://www.texa.com/download">https://www.texa.com/download</a>.</p>
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## 7 TMD MKG SA

**TMD MKG SA** is a device that can increase the probability of recovering the vehicle if it is stolen. The device is powered autonomously by an internal battery. When activated upon request, it can provide the vehicle's GPS position for a period of time so as to support the police in recovering the vehicle.



It is an independent device (Stand Alone) that works without the support of other devices.

It has a SIM card inside, which is needed to receive any messages from the Operations Centre.

Once installed and activated, the device remains 'dormant'.

A periodic activation of the device can be configured to make sure it is working.

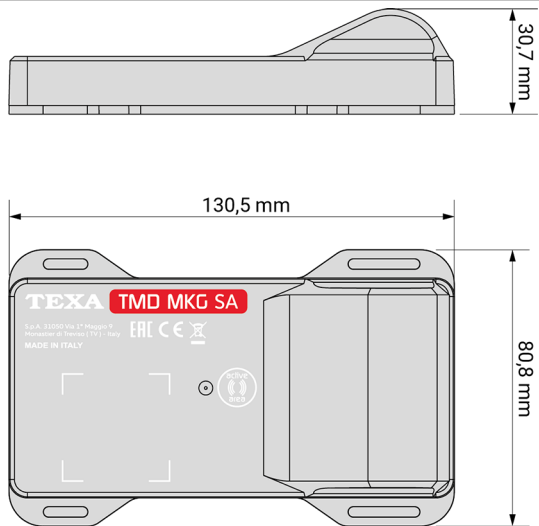
The factory setting for the activation is every 12 hours.

If the vehicle is stolen, once a police report has been filed, the Operations Centre will send an activation SMS to the device.

Upon the first programmed activation, the device receives the SMS and starts transmitting its position once every minute, until the battery is completely drained or the stolen vehicle is recovered.

Once its function is exhausted, the **TMD MKG SA** must be disposed of.

## 8 TECHNICAL FEATURES

<b>Manufacturer:</b>	TEXA S.p.A.
<b>Model:</b>	TMD MKG SA
<b>CPU:</b>	CORTEX M4
<b>Communication module:</b>	GPRS / GSM
<b>GNSS module:</b>	GPS, GLONASS, Beidou, Compass, Galileo
<b>Battery:</b>	Lithium 3.6 V - 8.5 Ah
<b>Power supply:</b>	self-powered
<b>Operating temperature:</b>	- 20 ÷ 65 °C
<b>Storage temperature:</b>	- 30 ÷ 80 °C
<b>Operating moisture:</b>	10 ÷ 80 %
<b>Dimensions:</b>	 <p>The technical drawings show the device from three perspectives: a side view indicating a height of 30.7 mm, a top view indicating a width of 130.5 mm, and a front view indicating a height of 80.8 mm. The front view also shows the device's label with the TEXA logo, model name TMD MKG SA, and various regulatory marks.</p>
<b>Weight:</b>	170 g
<b>Regulations and Directives:</b>	RED 2014/53/EU RoHS 2011/65/EU Delegated Directive 2015/863/EU
<b>Electromagnetic Compatibility:</b>	ETSI EN 301 489-1 ETSI EN 301 489-17 ETSI EN 301 489-19 ETSI EN 301 489-52
<b>Radio Systems:</b>	ETSI EN 300 328 ETSI EN 301 511 ETSI EN 303 413 EN 62311
<b>Electrical Safety:</b>	EN 62368-1

## 9 TMD MKG SA INSTALLATION



### DANGER

The installation must be performed by qualified personnel only.  
Make sure the installation does not interfere with the vehicle operation.



### CAUTION

MAGNETIC SOURCES (for example: loudspeakers) MAY ACTIVATE THE DEVICE INAPPROPRIATELY, REDUCING THE BATTERY LIFE.

**DO NOT INSTALL THE DEVICE NEAR MAGNETIC SOURCES.**

Proceed as follows:

1. Install and secure the device in the position that the operator considers the most suitable to fulfil the operating requirements.

### INFORMATION

*To prevent tampering with the device, choose its installation position carefully.*

*For more information and advice, contact TEXA Assistance Service.*



**For further information on the correct installation position, please refer to the user manual provided with the vehicle.**

## 10 ACTIVATION

In order to use the advanced functions in the device, it must be activated.

### *10.1 Activation through MKG SA Starter*

The device can be activated by holding a magnet close to it.

Configure the device using the specific **MKG SA Starter** software.

The software consists of an app for Android and iOS devices that can be downloaded free of charge from Play Store and App Store.

In order for **MKG SA Starter** to work properly, the device on which the app is installed must connect to the Internet.

You may also be required to enable the installation of apps from unknown authors.

The device can be configured at the end of the activation procedure.

#### **INFORMATION**

**The app provides detailed information on the activation and installation of the device.**

## 11 LEGAL NOTICES

### TEXA S.p.A.

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For information regarding the legal notices, please refer to the **International Warranty Booklet** provided with the product.