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Review of the Manual

This document is **review 02** of the **DataPlug technical manual**.

INTRODUCTION

Dear Driver,

thank you for choosing a TEXA product for your vehicle, we are sure that you will be completely satisfied with it.

Thanks to this product you will be able to obtain information in real time directly from your vehicle's engine control unit; this way, using it in a safer and more efficient way other than interacting in a more effective way with your mechanic by reporting (in case of malfunctions) what the product detects.

Please read the instructions in this manual carefully and keep it for future reference.

Reading and understanding the following manual will help you to avoid damage or personal injury caused by improper use of the product.

We remind you that the manual has the sole purpose to illustrate the product's functioning and that you must refer to qualified personnel for any repair on the vehicle on which the product is installed.

TEXA S.p.A reserves the right to make any changes deemed necessary to improve the manual for any technical or marketing requirement; the company may do so at any time without prior notice.

This manual is to be considered an essential part of the product it refers to. If it is resold, the original buyer is therefore required to forward the manual to the new owner.

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1 ABOUT THE MANUAL

This manual is divided into the following chapters:

1. **Legend of the symbols used in the manual:** *it gives indications regarding the symbols used in this document.*
2. **Glossary:** *it clears the meaning of some terms used in this document.*
3. **Safety:** *it gives important indications for the safety of the user, the vehicle and of the device this document refers to.*
4. **Operation of the radio devices:** *it gives important information regarding the radio devices that are equipped on the device this document refers to.*
5. **Regulatory information:** *it gives indications regarding the laws that are applied to the device this document refers to.*
6. **DataPlug:** *it gives a brief overview of the device this document refers to.*
7. **Description:** *it describes the main features of the device this document refers to.*
8. **Power supply:** *it explains how the device this document refers to is powered.*
9. **Location of the diagnostic socket:** *it explains how to find the diagnostic socket needed to connect the device this document refers to.*
10. **Installation and configuration:** *it explains how to install and configure the device this document refers to.*
11. **Use:** *it explains how to use the device this document refers to.*
12. **Maintenance:** *it explains how to take care of the device this document refers to.*
13. **Blink codes:** *it explains how to read the flashing of the LEDs of the device this document refers to.*
14. **Troubleshooting:** *it gives some situations / problems that can occur while using the device this document refers to, along with a possible cause and a possible solution.*
15. **Technical features:** *it gives the main technical features of the device this document refers to.*
16. **Environmental information:** *it gives the information related to the disposal of the device this document refers to.*

2 LEGEND OF THE SYMBOLS USED

The symbols used in the manual are described in this chapter.

	Asphyxiation Risk
	Explosion Risk
	High Voltage Hazard
	Fire / Burn risk
	Poisoning Hazard
	Corrosive Substances Risk
	Noise Hazard
	Moving Parts Risk
	Crushing Risk
	General Risk
	Important information

3 GLOSSARY

- **Device:** *the term refers to DataPlug.*
- **Coverage list:** *official document that indicates only the vehicles on which you can safely install the device.*
- **Pairing:** *mutual recognition process that takes place when two Bluetooth devices must establish communication for the first time. It could require you to enter an identification code (PIN).*
- **OBD socket / diagnostic socket:** *vehicle connector that allows you to connect to the vehicle's control unit.*
- **Display unit:** *any smartphone in which the app that allows the connection with DataPlug is installed.*

4 SAFETY RULES

The technology used for the design and manufacturing control of the DataPlug makes it a reliable, simple and safe device to use.

Users of DataPlug are required to follow the general safety rules, to use the device for its intended use only and to take care of it as indicated in this manual.

4.1 General Rules

- *The user must have carefully read all the information and instructions indicated in the technical documents provided with the device.*
- *Consult an authorised workshop for any doubts regarding how to carry out the installation properly.*

4.2 User Safety

	The device was designed and created in order to allow an easy, fast and safe installation; nevertheless, it is impossible to completely eliminate some of the risks connected to this operation.
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Safety Measures:

- *Make sure the vehicle's instrument panel is off before starting the installation.*
- *Make sure the vehicle on which you wish to install the device is on a flat surface and with the parking brake engaged.*
- *Make sure there are not any damaged cables around the diagnostic socket.*
- *Be careful not to harm yourself on sharp plastic edges or metal plates around the diagnostic socket.*

	The position in which the device is placed and the behaviour of its LEDs were designed to avoid any possible obstacle or interference for the driver. Lack of concentration while driving puts both the driver and the vehicle in danger.
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Safety Measures:

- *Do not drive the vehicle before reassembling the plastic parts and panels previously removed.*
- *Do not get distracted by checking the status of the device or interacting with it directly or using the display unit.*

4.3 Vehicle Safety

	The device was designed and created in order to allow an easy, fast and safe installation; nevertheless, it is best to be sure not to compromise any vehicle function during this operation.
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Safety Measures:

- *Delicately remove any plastic part, cover or bulkhead that might cover the diagnostic socket, being careful not to loose any screw or fastening hook.*
- *Be careful not to damage or disconnect any plastic part or cable close to the diagnostic cable.*
- *Carefully reposition and close any plastic part, cover or bulkhead at the end of the device's installation and configuration phase.*
- *Do not install the device in vehicles that are not expressly indicated in the specific coverage list.*

4.4 Device Safety

	The device was designed to be used in specific environmental conditions. Using the device in environments with temperatures and humidity that differ from those specified, may impair its efficiency.
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Safety Measures:

- *Always place the device in a dry area.*
- *Do not expose or use the device close to heat sources.*
- *Position the device in order to guarantee its proper ventilation.*
- *Do not use corrosive chemicals, solvents or harsh detergents to clean the device.*

	The device was created to be mechanically resistant and suitable for the use it was designed for. Careless use and excessive mechanical strain may impair its efficiency.
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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.*
- *Do not force the device or the connectors and take the utmost care during all connecting and disconnecting operations.*
- *Connect the device properly and securely in order to avoid it from accidentally disconnecting during use.*
- *Do not use screwdrivers or other tools to lever and disconnect the device.*

	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 the device's efficiency.
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Safety Measures:

- *Do not wet the device with water or other liquids.*
- *If not specified otherwise, use the device on vehicles with a 12 V DC power supply and chassis connected to the negative pole and in any case only on the supported vehicles.*
- *The connection for the device's power supply must always be with the battery-operated system of the vehicle being tested.*



The electromagnetic compatibility tests carried out on the device guarantee that it can be adapted to the technologies normally used on vehicles (ex.: engine control, ABS, airbag, etc.). Nevertheless, if malfunctions occur, contact the vehicle's dealer.

5 OPERATION OF THE RADIO DEVICES

Wireless connection with Bluetooth® technology

The wireless connection with Bluetooth technology is a technology that supplies a standard and reliable method to exchange information between different devices, using radio waves. Products such as cellular phones, portable devices, computers, printers, cameras, pocket PCs etc. use this type of technology.

The Bluetooth interface searches for compatible electronic devices according to the radio signal they generate and establishes a connection between them. The tools operate a selection suggesting only compatible / enabled devices. This does not exclude the presence of other sources of communication or interference.

THE EFFICIENCY AND THE QUALITY OF THE BLUETOOTH 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 product in order to guarantee the correct operation of its radio devices. In particular, do not cover it with any shielding or metal materials in general.

6 REGULATORY INFORMATION

Declaration of Conformity

	Texa S.p.A. hereby declares that this DataPlug complies with the essential requirements and with all further provisions defined by the R&TTE 1999/5/EC and RoHS 2011/65/EU directives.
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A complete copy of the Declaration of Conformity can be found at
Texa S.p.A., Via 1 Maggio 9, 31050 Monastier di Treviso (TV), Italy

Conformity

The DataPlug complies with the following requirements:

- FCC (Federal Communications Commission) Part 15

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC ID: T8RDP15

7 DATAPLUG

DataPlug is a compact device that, during normal vehicle operation, can acquire information useful both to the driver and the mechanic.



The data acquired is useful to detect problems connected to the vehicle's management and its maintenance status.

The device can be installed on any Volkswagen vehicle that is in the specific coverage list.

The device must be connected to a specific diagnostic socket called **OBD socket**.

The device communicates with the vehicle's control unit through the OBD socket and acquires the required data.

The device is able to acquire the required data from the vehicle and to transmit it in real time via Bluetooth to the smartphone selected as a display unit.

For this to occur, a specific app must be installed in the display unit.

The app can be downloaded directly from Internet through



and



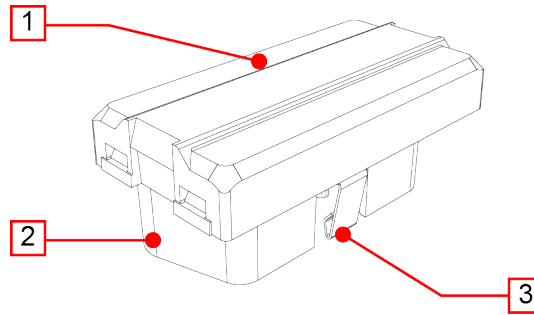
The acquired data is processed and displayed on the display unit.

Connecting and disconnecting the device from the vehicle is quick and easy.

Because of its small size, the device takes up little space and does not interfere with driving.

8 DESCRIPTION

This chapter describes the general features of the device.



1. **Status LEDs:** *they give indications regarding the status of the device.**
 - **Green:** *indicates the status of the device without Bluetooth communication.*
 - **Blue:** *indicates the status of the device with Bluetooth communication.*
 - **Red:** *indicates the presence of errors.*
 2. **OBD connector:** *it allows the connection between the device and the vehicle's diagnostic socket and, through the latter, to the control unit.*
 3. **Retention hook:** *it secures the device to the vehicle's diagnostic socket.*
- (*) For more information consult the chapter **Blink Codes**.

9 POWER SUPPLY

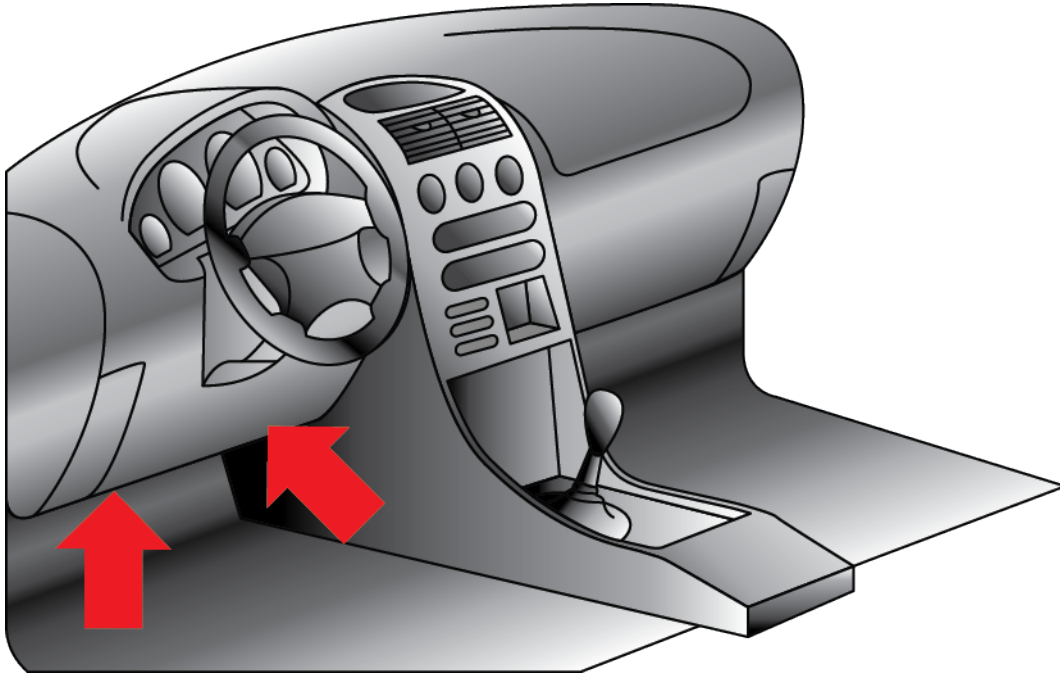
The device draws its power supply directly from the battery of the vehicle it is connected to through the OBD socket.

The vehicle's OBD socket is always powered, even when the engine and instrument panel are off.

The absorption never affects the battery's charge.

10 LOCATION OF THE DIAGNOSTIC SOCKET

The image below indicates where the diagnostic socket may be located.



We always recommend you check the location of the OBD socket in the vehicle's user manual.

In case of doubts or for further information, contact the Technical Assistance or your Service Partner / Retailer.

11 INSTALLATION AND CONFIGURATION

The following chapters illustrate how to install and configure the device.

The device can be installed only on Volkswagen vehicles indicated in the specific coverage list.



Do not install the device on vehicles not expressly indicated in the specific coverage list.

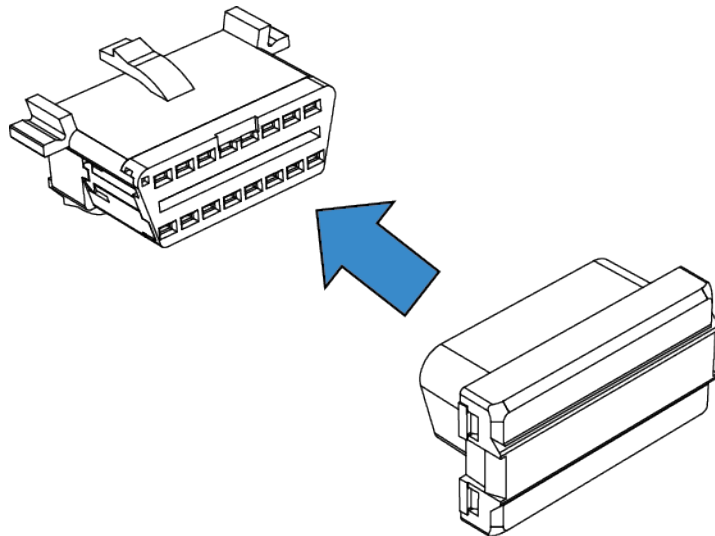
11.1 Installation



A screwdriver may be needed to loosen the screws that fasten the panels that cover the OBD socket.

Proceed as follows:

1. Turn off the vehicle (ignition key off).
2. Locate the OBD socket.
3. Carefully remove any panels cover the OBD socket.
4. Connect the device to the OBD socket.



5. Turn on the vehicle (instrument panel on).
6. Make sure the device is securely connected to the diagnostic socket to avoid it from accidentally disconnecting during use.



Make sure that the various components around the diagnostic socket do not damage the device during installation.

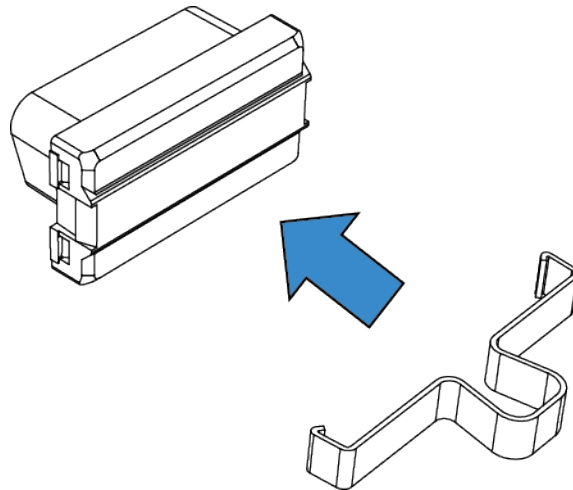


Make sure that the position of the device does not interfere with driving.

You might have to disconnect the device from the OBD socket during vehicle maintenance operations in order to allow the connection of diagnostic devices. In this case, use the **specific extractor tool**.

Proceed as follows:

1. Turn off the vehicle (ignition key off).
2. Carefully remove any panels cover the OBD socket.
3. Apply the extractor tool to the device.



4. Carefully pull out the device until it disconnects completely from the diagnostic socket.

If you do not have the extractor tool, use your bare hands to carry out this operation.



Do not use screwdrivers or other tools to lever and disconnect the device.

11.2 Configuration

The configuration of the vehicle is automatic, nevertheless you should verify the connection to the control unit and to the display unit by means of the flashing LEDs before repositioning plastic parts or panels.

After the check, reposition all the plastic parts and panels previously removed.



Do not start driving before the plastic parts and panels removed are repositioned correctly.

DISPLAY UNIT'S BLUETOOTH NOT ACTIVE

Proceed as follows:

1. *Turn on the vehicle's instrument panel.*
2. *Make sure the device's **green LED** goes through the following statuses:*

Double flash	Configuration in progress.
Quick flash	Device configured, waiting to communicate with the vehicle.
Slow flash	Device configured and communicating with the vehicle. Normal operation.

At this point the device is ready for use.

DISPLAY UNIT'S BLUETOOTH ACTIVE

Proceed as follows:

1. *Make sure the display unit's Bluetooth is active.*
2. *Turn on the vehicle's instrument panel.*
3. *Make sure the device's **green and blue LED** flashes alternately.*
4. *Launch the specific app for the connection to the device.*
5. *Start the procedure for the connection to the device.*
6. *Enter the PIN when requested by the app (the PIN is printed on the device's label and on a sticker applied to the product's box).*
7. *Make sure the device's **blue LED** goes through the following statuses:*

Double flash	Configuration in progress.
Quick flash	Device configured, waiting to communicate with the vehicle.
Slow flash	Device configured and communicating with the vehicle. Normal operation.

At this point the device is ready for use.

For further information consult the Blink Codes chapter.

12 USE

It is no longer required to act directly on the device after the installation and configuration.

Any operation takes place through the display unit.

The device activates as soon as the vehicle's instrument panel is turned on and it connects automatically to the display unit if it is within the operating range of the device's Bluetooth antenna.

All the device's LEDs turn off automatically as soon as the vehicle starts moving.



While driving, do not get distracted by checking the status of the device or interacting with it directly or using the display unit.

In case of doubts or for further information, contact the Technical Assistance or your Service Partner / Retailer.

13 MAINTENANCE

This product does not require maintenance operations.

Follow the indications in this manual carefully in order to guarantee an extended use of the device.

In case of doubts or for further information, contact the Technical Assistance or your Service Partner / Retailer.

14 BLINK CODES

All the indicated statuses are to be intended with the **device connected to the diagnostic socket** and the **vehicle's instrument panel on**.

All the LEDs turn off as soon as the vehicle starts moving.

LED			Flash	Meaning
Green	Blue	Red		
X	X	-	Quick alternate flash	Device available for the pairing.
X	-	-	Double flash	BT communication not active. Configuration in progress.
			Quick flash	BT communication not active. Device configured, waiting to communicate with the vehicle.
			Slow flash	BT communication not active. Device configured and communicating with the vehicle. Normal operation.
-	X	-	Double flash	BT communication active. Configuration in progress.
			Quick flash	BT communication active. Device configured, waiting to communicate with the vehicle.
			Slow flash	BT communication active. Device configured and communicating with the vehicle. Normal operation.
X	-*	X	Orange flash	Update in progress.
-	-*	X	Flash	Error condition.

(*) The status of the blue LED is not relevant.

15 TROUBLESHOOTING

Below there are some situations / problems that can occur while using the device, along with a possible cause and a possible solution.

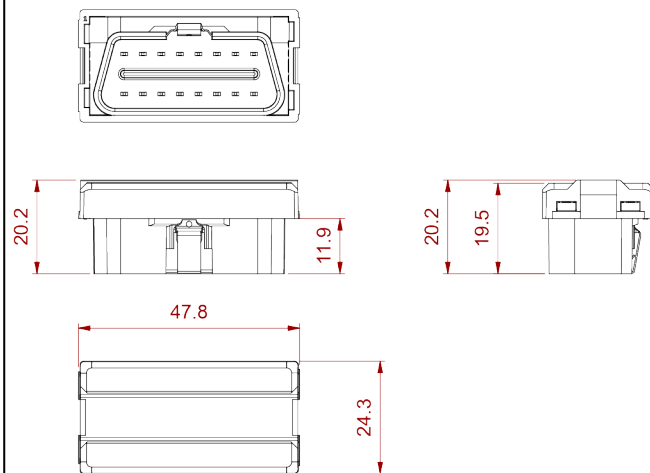
Situation / Problem	Possible Cause	Possible Solution
The device is connected to the diagnostic socket. The red LED flashes.	The vehicle is not in the list of vehicles on which the device can be used.	Use the device on a supported vehicle.
	There is an error condition.	Carefully disconnect and reconnect the device. If the error persists, contact the Technical Assistance service.
The device is connected to the vehicle's diagnostic socket but the green / blue LED does not turn on.	The vehicle's instrument panel is off.	Turn on the vehicle's instrument panel.
	The device is not properly connected and appears as switched off.	Carefully disconnect and reconnect the device to the diagnostic socket making sure it is inserted securely.
	The vehicle's diagnostic socket is damaged.	Contact an authorised workshop.
The pairing between the display unit and the device is not successful.	The PIN for the pairing of the device was not entered correctly when requested by the app.	Check and enter the PIN again when requested by the app.
	The maximum time limit for the pairing has been exceeded (2 minutes from key-on).	1. Turn off the vehicle's instrument panel. 2. Turn on the vehicle's instrument panel. 3. Repeat the pairing procedure.

The display unit is not communicating with the device.	The vehicle's instrument panel is off.	Turn on the vehicle's instrument panel.
	The device is not properly connected and appears as switched off.	Carefully disconnect and reconnect the device to the diagnostic socket making sure it is inserted securely.
	The display unit's Bluetooth is not active.	Activate the display unit's Bluetooth.
	The display unit is not within the device's Bluetooth operating range.	Place the display unit with the device's operating range, that is inside the vehicle or in its immediate surroundings.
	Other wireless communications interfere with the signal.	Wait and try to communicate again. Eventually move the vehicle into another position.

16 TECHNICAL FEATURES

Processor	ARM Cortex M4 CPU CPU Clock up to 168MHz Total Flash: 1024 Kbytes FLASH Total RAM: 196 Kbytes RAM
Diagnostic connector	ISO15031-03 OBD Plug
Communication	Bluetooth Classic (2.1) and 4.0 Low Energy (Smart Ready)
Supply voltage	6 V min, 16 V max
Current absorption	Standby current < 100 µA Operating current < 80 mA
Supported protocols	CAN HS ISO 11898-2
Directives	R&TTE 1999/05/EC RoHS 2011/65/EU
Product regulations	EN 301 489-1V1.9.2:2011 EN 301 489-17V1.6.1:2013 EN 300 328-2V1.8.1:2012 EN 60950-1:2006/A11+A1+A12+AC:2011 ISO 7637-1:2002 ISO 7637-2:2011
Regulations	ECE/ONU R10
Operating temperature	- 20 °C - 70 °C
Storage temperature	- 40 °C ÷ 85 °C
Relative humidity	10% ÷ 80% without condensate

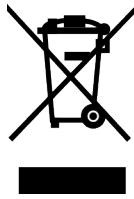
Dimensions in [mm]



Weight

15 g

17 ENVIRONMENTAL INFORMATION (For the European Union)



This product may contain substances that can be hazardous to the environment or to human health if it is not disposed of properly.

We therefore provide you with the following information to prevent releases of these substances and to improve the use of natural resources.

Electrical and electronic equipments should never be disposed of in the usual municipal waste but must be separately collected for their proper treatment.

The crossed-out bin symbol, placed on the product and in this page, remind you of the need to dispose of properly the product at the end of its life.

In this way it is possible to prevent that a not specific treatment of the substances contained in these products, or their improper use, or improper use of their parts may be hazardous to the environment or to human health. Furthermore this helps to recover, recycle and reuse many of the materials used in these products.

For this purpose the electrical and electronic equipment producers and distributors set up proper collection and treatment systems for these products.

At the end of life your product contact your distributor to have information on the collection arrangements.

When buying this new product your distributor will also inform you of the possibility to return free of charge another end of life equipment as long as it is of equivalent type and has fulfilled the same functions as the supplied equipment.

A disposal of the product different from what described above will be liable to the penalties prescribed by the national provisions in the country where the product is disposed of.

We also recommend you to adopt more measures for environment protection: recycling of the internal and external packaging of the product and disposing properly used batteries (if contained in the product).

With your help it is possible to reduce the amount of natural resources used to produce electrical and electronic equipments, to minimize the use of landfills for the disposal of the products and to improve the quality of life by preventing that potentially hazardous substances are released in the environment.