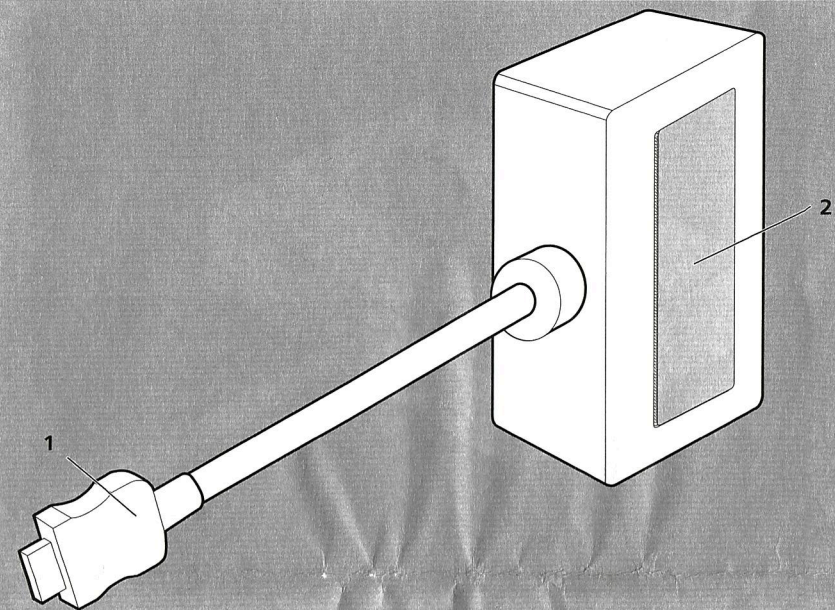


WM 68270 05/2017 DE, EN, FR



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Modul WM 090 MW

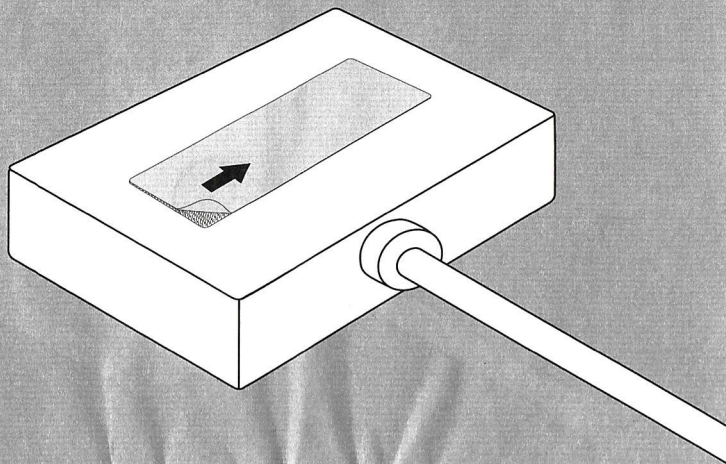
Modem für Therapiegeräte des Typs WM 090 TD

Modem for therapy devices of type WM 090 TD

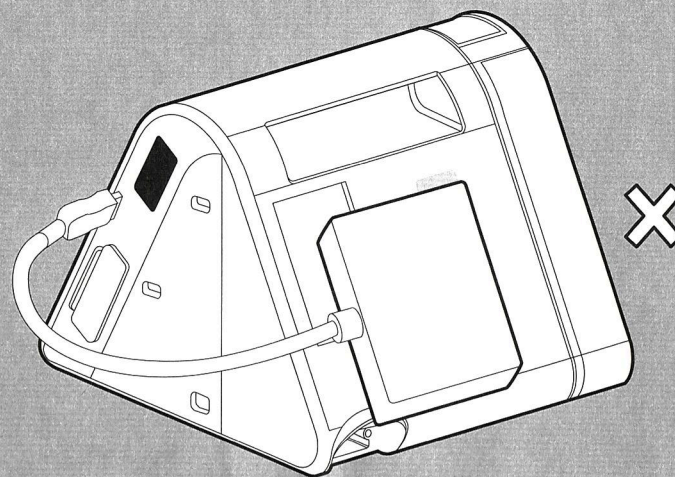
Modem pour appareils de thérapie du type WM 090 TD



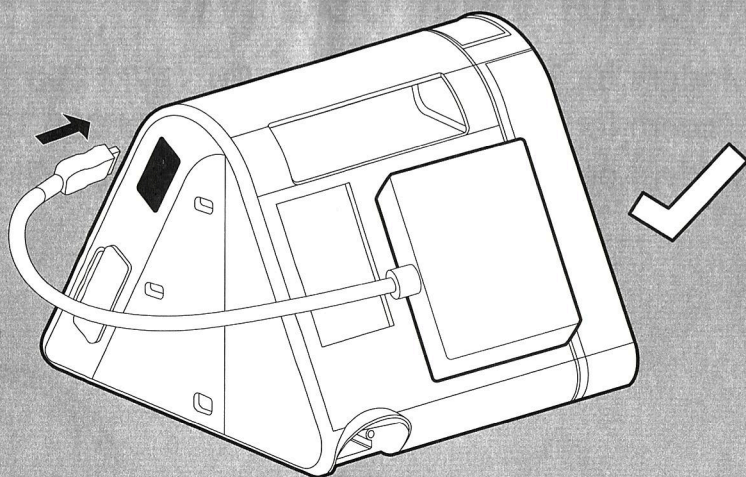
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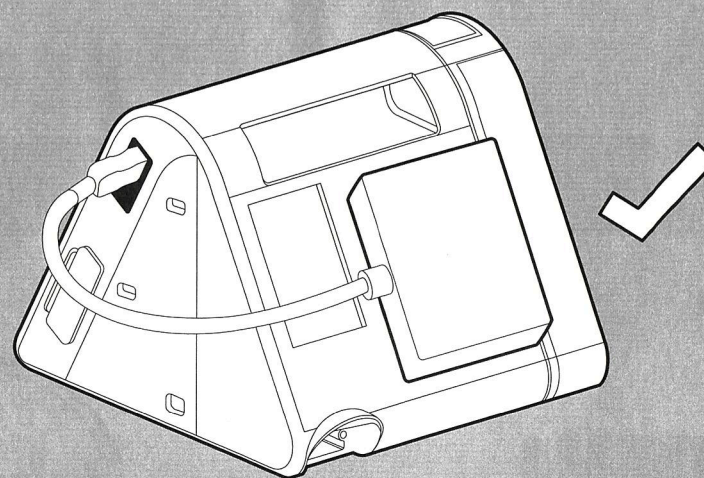
2











3



4



	Degree of protection against electric shock: Protection class III device
	Manufacturer
IP21	Degree of protection against solid foreign bodies. Device is protected against drips.
	Follow Instructions for Use.
	Wireless symbol
CE	CE marking
	Do not dispose of the device in domestic waste
	Direct voltage
GTIN	Global Trade Item Number
	Permitted storage temperature: -25 °C to 70 °C
	Permitted storage humidity: 15 % to 85 % relative humidity

4 Installation

Condition: The therapy device is on standby.


1. Remove grease and dust from the mounting surface on the rear of the therapy device.
2. Peel the protective film off the Velcro tab on the underside of the modem (see Fig. 1).

NOTICE

Material damage due to air inlet being covered!

A lack of air supply may damage the therapy device.
⇒ Do not attach the modem over the air inlet of the therapy device (see Fig. 2).

3. Carefully push the adhesive surface of the Velcro tab onto the rear of the therapy device so that the connecting cable of the modem points in the direction of the system interface for the therapy device (see Fig. 3).
4. Connect the connecting cable for the modem to the system interface of the therapy device (see Figs. 3 and 4).

After about 3 seconds, the  symbol appears in the therapy device display and the modem is operational.

4.1 Remove the modem



It may be necessary to disconnect the modem from the therapy device to clean it or to return it to your specialist dealer.

Otherwise, the modem can stay permanently attached to the therapy device.

1. Disconnect the connecting cable for the modem from the therapy device: Push together the release catches on the narrow sides of the connector and carefully pull the connector out of the system interface.
2. Pull the modem off the Velcro tab on the rear of the therapy device.

One part of the Velcro tab remains on the therapy device, the other on the modem.

5 Hygiene treatment

5.1 General information

- Wear appropriate safety gear for the disinfecting process.
- Refer to the Instructions for Use for the disinfectant used.

5.2 Intervals

Clean the modem weekly. Disinfect the modem if required (e.g. following infectious diseases or severe contamination) or on change of patient. Sterilizing is not permitted.

5.3 Hygiene treatment for modem

NOTICE


Risk of material damage as a result of ingress of liquids!

The modem may be damaged by the ingress of liquids.
⇒ Do not immerse the modem in liquids.

1. Disconnect the connecting cable for the modem from the therapy device (see the section entitled "4.1 Remove the modem").
2. Wipe the modem over with a soft cloth.
3. If necessary: Remove more stubborn particles of dirt with a soft cloth moistened with water or disinfectant (recommended products: terralin® protect or perform advanced Alcohol EP).

6 Function check

Carry out a function check after any hygiene treatment or repair, but at least every 6 months.

1. Set up the therapy device properly in accordance with the Instructions for Use.
2. Check the modem housing for cracks, damage and severe soiling.
3. Connect the modem to the therapy device (see the section entitled "4. Installation").
4. Check whether the wireless symbol appears in the therapy device display ().
5. If the modem is not working properly or is damaged: Do not use device and contact your specialist dealer.

7 Faults

If you are unable to remedy faults with the aid of the table, or in the event of unexpected operation or an incident, contact your authorized specialist dealer to have the device repaired. To avoid exacerbating the damage, do not continue operating the device.

Fault	Cause	Remedy
No wireless symbol appears in the therapy device display, not even over ten seconds after connection of the modem	Modem not started correctly.	Disconnect the modem from the therapy device, reconnect after 5 seconds and wait about 15 seconds.
	Therapy device firmware does not support modem.	Contact your specialist dealer.
	Modem faulty.	Contact your specialist dealer.
Therapy device displays "NO PIC"	Therapy device is not configured for data transmission.	Contact your specialist dealer.
When the therapy start button is pressed, the therapy device displays "buSY"	Temporarily unable to interrupt process.	Wait until "buSY" disappears. This can take up to 90 seconds. To start therapy straight away: Disconnect modem (see "4.1 Remove modem").
Therapy device displays "Err 628"	Modem not supported.	Contact your specialist dealer.
Therapy device displays "Err 622"	Mobile wireless not configured.	Contact your specialist dealer.

Fault	Cause	Remedy
Therapy device displays "Err 623"	No mobile wireless network available.	Try again later.
		Error occurs relatively frequently: Select a location with better reception.
		No remedy possible: Contact your specialist dealer.
Therapy device displays "Err 629"	Mobile wireless network not providing a data service.	Try again later. No remedy: Contact your specialist dealer.
Therapy device displays "Err 624"	No reliable link to remote data transmission station.	Try again later. No remedy: Contact your specialist dealer.
Therapy device displays "Err 627"	Configuration of remote data transmission station faulty.	Contact your specialist dealer.

8 Servicing

The modem is designed for a service life of 6 years. If used in accordance with its intended use, the modem requires no maintenance according to these Instructions for Use.

If the device is used beyond this period, it needs checking by an authorized specialist dealer.

9 Scope of supply

Part	Article number
2G modem	WM 31740

10 Technical specifications

Temperature range	
Operation	+5 °C to +40 °C
Storage	-25 °C to +70 °C
Permitted humidity for operation and storage	15 % to 85 % relative humidity, no condensation
Air pressure range	700 hPa - 1060 hPa
Type of protection against electric shock	Protection class III
IP classification to ISO 60529: Degree of protection against harmful ingress of solids and water	IP21
Electrical rating	24V DC

Power capacity*	0.4 W
• in flight mode	0.72 W to 1.4 W
• when transmitting data	
Electrical safety	EN 60950
Electromagnetic compatibility EMC	Applied standards and wireless standards can be found in the modem manufacturer's declaration of conformity.
Wireless standards	Test parameters and limit values can be obtained from the modem manufacturer on request.

* Data apply only in combination with the licensed therapy device.
The right to make design modifications is reserved.

1 Introduction

1.1 Intended use

The module WM 090 MW is used to create a mobile radio connection between the therapy device WM 090 TD and the platform prisma CLOUD. The module is intended for indoor use only.

1.2 Description of function

If the modem is connected to a compatible therapy device, this supplies it with power and controls it. The therapy device uses the modem to transmit data to the prisma CLOUD platform automatically at specific intervals. Progress and any data transmission errors are shown in the therapy device display. The display also indicates the signal strength of the connection to the mobile wireless network at values of 1 - 6.

An automatic data transmission error may occur if it is not possible to connect to the wireless network, for example. If an error occurs during data transmission, a fresh attempt to transmit data will be started after a short time. Data are never transmitted during therapy and the modem is in so-called flight mode (no wireless signals are emitted).

2 Safety

2.1 Safety information

Risk of injury from operating the device outside the specified ambient conditions!

Using the device outside the specified ambient conditions may lead to tolerances being exceeded and to device failure, harming the patient.

- ⇒ Only operate device within the specified ambient conditions (see section entitled "Technical data").
- ⇒ Only operate the device in enclosed spaces.
- ⇒ Do not operate the device in vehicles or aircraft.
- ⇒ Do not operate the device in environments at risk of explosion, such as gas stations.
- ⇒ Maintain a minimum distance of 20 cm between the modem and parts of the body.

2.2 General information

- Have repairs and maintenance carried out only by the manufacturer or by specialist staff expressly authorized by the manufacturer.

- The owner/operator is responsible for ensuring the compatibility of the therapy device and of all the components or accessories connected to the patient before use. Have modifications to the device carried out only by the manufacturer or by specialist staff expressly authorized by the manufacturer.
- The device is subject to special precautions with regard to EMC (electromagnetic compatibility). It is essential to maintain the specified safety distance between the device and other devices which emit HF radiation (e.g. cell phones) in order to prevent malfunctions. Safety distances can be found in the Instructions for Use for the therapy device in Section 12.1.4 Safety distances.
- To prevent infection or bacterial contamination, follow the hygiene treatment section (see section entitled "Hygiene treatment").
- The Instructions for Use for the therapy device, the components and the accessories should also be followed.

3 Product description

3.1 Overview

A diagram of the individual parts can be found on the title page.

- System interface connector for connection to the therapy device.
- Velcro tape to attach the modem to the therapy device.

3.2 Symbols in the display of the therapy device

Symbol	Description
	White: The connected modem is in flight mode. No wireless signals are sent.
	Green: The connected modem is transmitting data.

3.3 Markings and symbols

Symbol	Description
TYPE	Type designation
REF	Article number
IMEI	International Mobile Equipment Identity Number
ICCID	Integrated Circuit Card Identity Number