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DOCUMENT OPM_PTD3-GL-W_EN		DATE 12-Aug-2025

Operating Manual

ORIGINAL



Glove Test Device Generation 3 PTD3-GL-W

EUROPEAN PATENT NUMBER 1210213

APPROVAL

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VERSION HISTORY

VERSION	DESCRIPTION OF CHANGES
1.0	Document created.

Note: New document starts at version 1.0 and description of changes to current version only is required.

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1. About this document

1.1 Storage

- Carefully read and observe the following operating instructions before use:
MK Glove Test Device Generation 3
MK Battery Inductive
MK Single Charging Station Inductive
MK GITS Software
- Keep the manual in safe place and include the manual when passing on.

1.2 Target group

Only trained persons may perform activities described in this document.

Trained persons must have the following qualifications:

- Participation in a training course conducted by the manufacturer on the safe use of the MK Glove Test Device.

1.3 Explanation of symbols

Action instructions are presented as follows:

- Action instruction
- 1. Instruction sequences are represented by numbering
- ⇒ Intermediate result
- ✓ Action performed successfully

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1.4 Symbols on the product

Symbol	Explanation
	CE marking The product complies with the requirements of the applicable EU directives
	WEEE-marking Do not dispose of the product with household waste, but in accordance with the disposal regulations for waste electronic equipment applicable at the place of installation.
IP 64	International Protection 6 dust-tight 4 Protection against splashing water on all sides

1.5 Product nomenclature

PTD3-GL-W -SS-DIM		
①	②	③

Number	Description	Variation
①	Basic device	Glove Test Device Generation 3 – WLAN + RFID
②	Device shape and sealing method	1 st digit O: Oval C: Circular 2 nd digit O: Sealing against outside I: Sealing against inside

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Number	Description	Variation
③	Device dimensions	For device shape O: height x width in millimeters Range height: 227 mm – 400 mm Range width: 150 mm – 272 mm For device Shape C: diameter in millimeters Range diameter: 105 mm – 350 mm

1.6 Illustration of safety advice

Safety-related information is presented as follows:



WARNING

Indicates a dangerous situation that can result in death or serious physical injury.

- Measures to avoid the danger



CAUTION

Indicates a possible hazardous situation that can lead to minor injuries.

- Measures to avoid the danger

NOTICE

Indicates a situation that may result in property damage.

- Measures to prevent the damage to property



The symbol indicates an assistance.

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1.7 Designation

Complete designation	Designation in this document
MK Glove Test Device Generation 3	Glove Test Device
MK Battery Inductive	Battery
Glove Integrity Test System	GITS Software
Glove port	Port
Radio Frequency Identification	RFID

1.8 Contact and service address

MK Versuchsanlagen GmbH & Co. KG

Stueckweg 10
35325 Muecke-Merlau
Deutschland

Tel: +49 6400 – 9576030

Fax: +49 6400 – 9576031

info@mk-versuchsanlagen.de
www.mk-versuchsanlagen.de

2. Safety

2.1 Danger due to electricity



WARNING

Death and serious injury possible due to explosion.

- Only use the glove test device in non-hazardous areas. Areas at risk of explosion include environments with oxygen-enriched atmosphere or highly flammable substance such as gasoline or highly flammable anesthetics.

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2.2 Environmental conditions

NOTICE

Faulty test results possible due to incorrect ambient conditions.

- Maintain temperatures of 21 °C ±3 °C.
- Maintain a relative humidity of 30 % - 70 %RH.
- Do not use in wet environments.
- Note the degree of pollution (see Chapter 3.4)
- Do not exceed altitudes of 2000 meters above sea level.

2.3 Use

NOTICE

Material damage to the Glove Test Device possible due to improper handling.

- Only use the battery supplied.
- Do not place any objects on the tester.
- Do not expose to direct sunlight.
- Protect the Glove Test Device from falling down. During use, ensure that the Glove Test Device is firmly seated in the port with the seal fully inflated.
- Observe the intended use.

2.4 Service

NOTICE

Material damage to the Glove Test Device possible due to improper maintenance.

- Repairs may only be carried out by the manufacturer.
- Screw seal must not be opened.
- Observe recommended annual maintenance intervals.
- Only device-specific rechargeable batteries (MK battery inductive) from the manufacturer may be used.

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2.5 Transport

NOTICE

Material damage to the Glove Test Device possible due to transport error.

- Only ship the Glove Test Device with the battery removed.
- Only ship the Glove Test Device in the transport case that comes with it.

2.6 Cleaning

NOTICE

Material damage to the Glove Test Device possible due to improper cleaning.

- Clean Glove Test Device only with a lint-free, soft cloth.
- Only use cleaning agents recommended by the manufacturer. Possible cleaning agents listed under Chapter 7.1, p. 16.
- The Glove Test Device must **not** be autoclaved.
- Do not immerse the Glove Test Device in liquids.

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3. Product description

3.1 Intended use

The patented MK Glove Test Device Generation 3 serves as a test device for the tightness of gloves in isolators and restricted access barrier systems.

The measurement is carried out using differential air pressure in an already installed state.

The test pressure range is freely parameterisable between 100 – 2500 Pa.

3.2 Structure

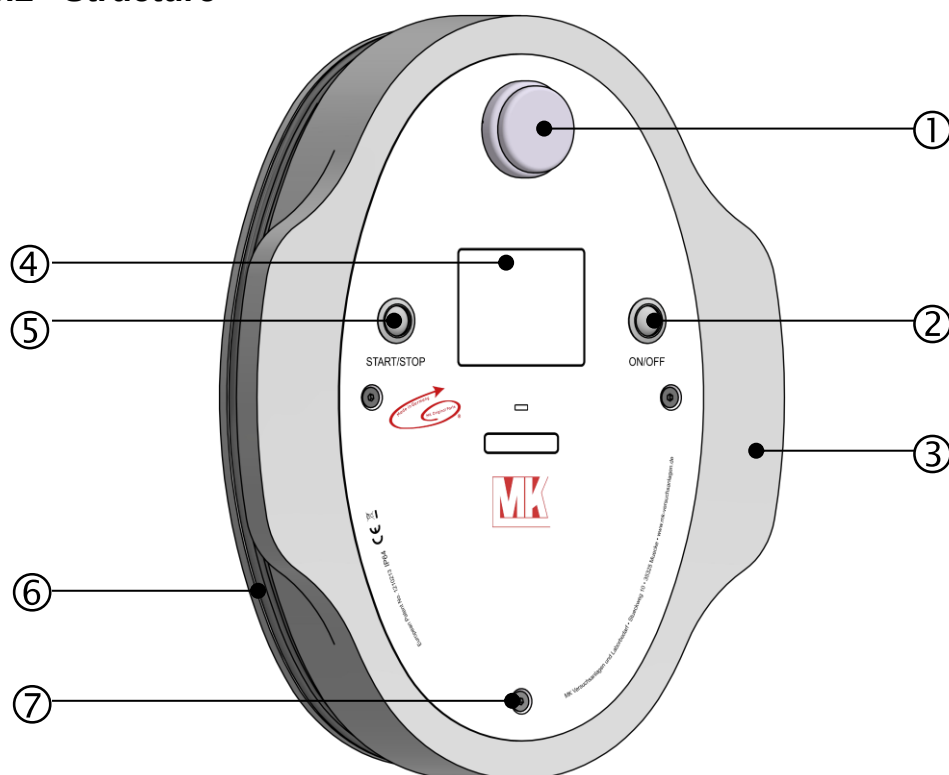


Figure 1: MK Glove Test Device Generation 3

	Designation	Function
①	Prefilter	The prefilter filters the intake air for filling. The prefilter serves to protect the test instrument. There is a second filter on the back of the Glove Test Device.
②	ON/OFF Switch	Switches the Glove Test Device off or on.
③	Recessed grips	Recessed grips for easy insertion and removal of the Glove Test Device.

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④	Display	The display shows status information and pressure values during the test.
⑤	START/STOP Button	Starts the Glove Test Device or puts it into stand-by mode (when powered on). Press 2 times within one second, the seal is vented.
⑥	Seal	The seal fixes the Glove Test Device in the port and seals.
⑦	Screw joint	Screw joint of the Glove Test Device. They are sealed by the manufacturer. The seal must not be opened. An opened seal will result in the loss of the warranty.

3.3 Status symbols on the display

Symbol	Explanation
	WLAN connection to the access point is established.
	Port RFID has been detected by the Glove Test Device.
	Glove RFID has been detected by the Glove Test Device.
	Indicates the charging status.

3.4 Technical data

Specifications	
Operating voltage	3.5 V – 4.2 V
Power supply	Battery pack – Li-Ion – 6,700 mAh
Power consumption	Power consumption from HW-V5.4: 250 mA Maximum: 3,600 mA (with pump running)
Running time (in measuring cycles)	Approx. 10 measuring cycles of 20 minutes

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Specifications

	each.
Loading time	At 1000 mA charging current (inductive) approx. 8 hours.
Measuring range	3 – 2.488 Pascal (Absolute value)
Resolution	1 Pascal
Error limits	±1 % from measuring range
Maximum input pressure	-43,500 – 43,500 Pascal (non damaging) -85,000 – 85,000 Pascal (possibly damaging) -135,000 – 135,000 Pascal (bursting pressure)
Radio transmission	WLAN
WLAN Standard	IEEE 802.11 a/b/g/n
Frequency band	2.4 GHz and 5 GHz
Encoding	WPA2 (PSK)
Pollution degree	II
<u>Overall size</u>	
Device shape oval	Range height 227 mm – 400 mm, range width 150 mm – 272 mm
Device shape circular	Range diameter 105 mm – 350 mm
<u>Mass of device</u>	2,9 kg – 4,6 kg

Material	Component
PETG (Polyethylenterephthalatglykol)	Cover (crystal clear)
POM-C (Polyoxymethylen)	Housing, handle
EPDM (Ethylen-Propylen-Dien, M-Klasse)	Profile seal
Silicone	Flat seal

Customer-specific deviations in materials possible.

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3.5 Scope of delivery

- MK Glove Test Device Generation 3
- MK Battery Inductive
- Transport case
- Operating manual
- Declaration of conformity
- Certificates

3.6 Functions

- Leak test of the gloves in the installed state.
- Microcontroller-controlled sealing of the port.
- Mains-independent energy supply through battery.
- Charge status monitoring of the external battery.
- Integrated TFT display.
- Measure and display glove pressure.
- WLAN module for communication with the GITS software for data acquisition.
- Integrated RFID technology for glove and port recognition.

4. Initial comissioning

Before initial comissioning, proceed as described below from *4.1 Unpack*.

4.1 Unpack

The Glove Test Device and the corresponding battery are always delivered in a sturdy transport case, which must be stored.

- Remove the Glove Test Device and the battery from the transport case.
- Remove and dispose packaging material.
- After unpacking, check the contents for completeness and possible damage.

4.2 Insert battery

Before initial operation, the battery must be installed in the Glove Test Device.

Only the battery supplied by the manufacturer may be used.

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NOTICE

Material damage possible due to overtightening of the locking screw on the battery

- Tighten the locking screw by hand
- Do not turn the locking screw more than 90°.
- Use the coin driver supplied with the charging station.

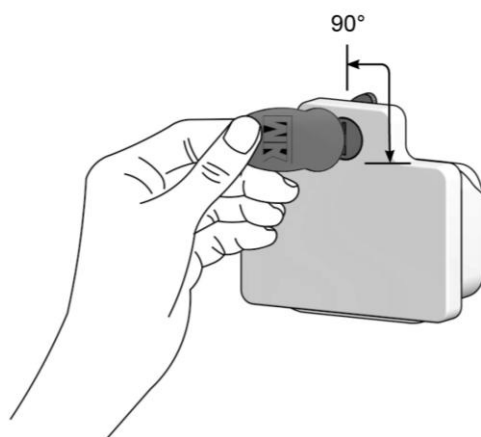


Figure 2: Adjusting the locking bolt on the battery

Insert battery:

- Set the locking bolt of the battery to the unlocked position (figure 3). Turn the locking screw by 90° to bring the locking bolt into the desired position (figure 2).

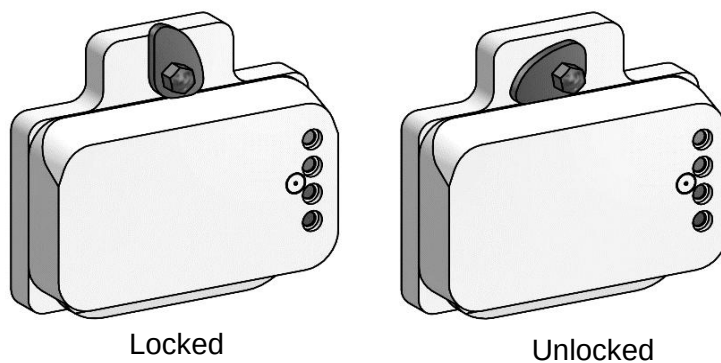


Figure 3: Positions of the locking bolt on the battery.

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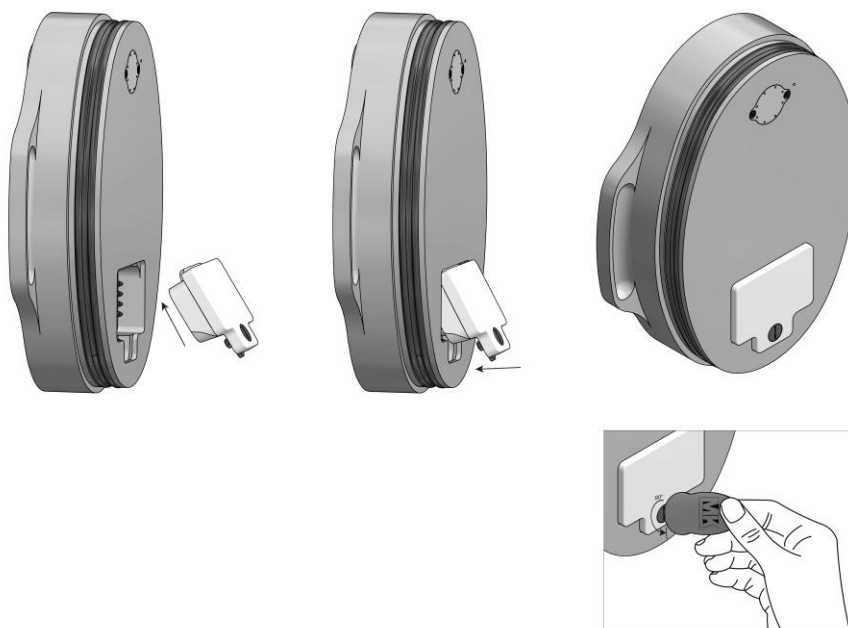


Figure 4: Inserting the battery into the Glove Test Device

- Insert the battery diagonally into the recess provided for it in the Glove Test Device, press it on and turn the locking screw anti-clockwise by 90° (figure 4).
- ✓ The battery is successfully installed in the Glove Test Device.

To remove the battery, proceed in reverse order.

4.3 Charge battery



It is not necessary to remove the battery for charging.

Charge the battery before using it for the first time. Proceed as described in the operating manual for your charger.

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5. Operation

5.1 Requirements

The following should be fulfilled before operation:

- Enviromental conditions
 - Temperature: 21°C ±3°C
 - Relative humidity: 30% - 70% RH
 - Altitude not exceeding 2000 m above sea level.
 - Degree of pollution taken into account (see chapter 3.4).
- Glove Test Devices that have been stored at different temperatures must be acclimatised before use.
- Glove must be free of wrinkles, creases and objects.
- The battery of the Glove Test Device is fully charged (see operation manual MK Single Charging Station Inductive).
- The Glove Test Device is cleaned (see chapter 7.1)

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5.2 Insertion



CAUTION

Injuries and material damage to the Glove Test Device possible if the Glove Test Device falls.

- When inserting the Glove Test Device, hold it in the port until the seal is fully inflated and fixes the Glove Test Device in the port.
- Observe the information on the display of the Glove Test Device. The prompt „Hold device until finished“ disappears as soon as the seal is fully inflated.



Figure 5: Inserting the Glove Test Device into the port.

Insert the Glove Test Device into the port:

1. Check that the battery is fully charged (see operation manual MK Single Charging Station Inductive).
 2. Press ON/OFF switch (Ⓢ figure 1).
- ⇒ The Glove Test Device starts and is in stand-by after 5 seconds. The display shows various status symbols at the top right (see chapter 3.3, p. 8). In the centre, the current pressure and the next steps. At the bottom are the unit name, serial number and service status (figure 6).

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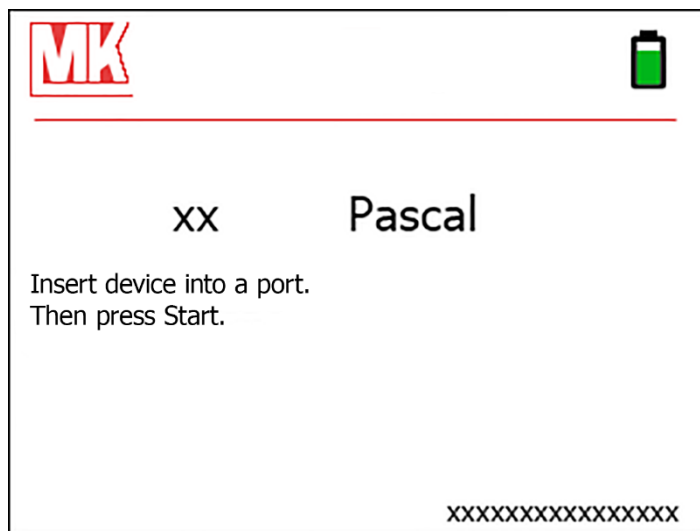


Figure 6: Display, Stand-by

3. Insert the Glove Test Device into the port as shown in *figure 5* and hold it in place.
 4. Press START/STOP button (Ⓢ figure 1).
- ⇒ The display will show a message that the seal is being inflated and a request to hold the unit until the seal is completely inflated (figure 7).

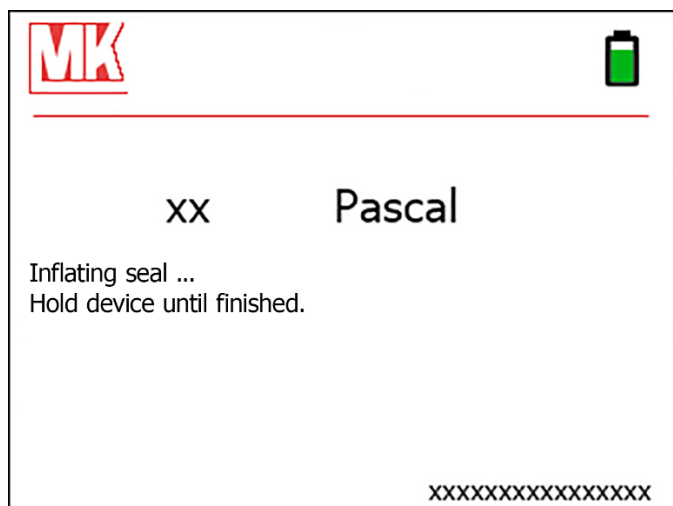


Figure 7: Display, Inflate the seal

5. Hold the Glove Test Device in the port until the display (figure 7) disappears. Only then is the Glove Test Device firmly connected to the port.

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- ⇒ The pre-pressure is then built up automatically (figure 8). The pre-pressure is set at the factory.

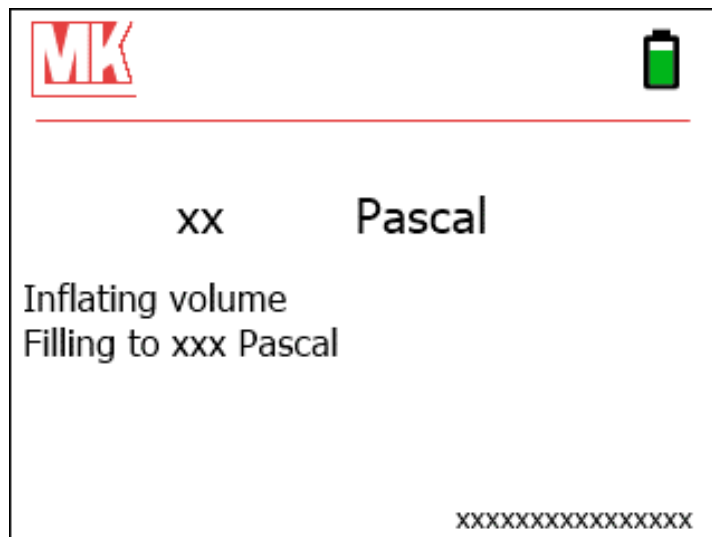


Figure 8: Display, Building up the pre-pressure

- ⇒ As soon as the pre-pressure is reached, the Glove Test Device is ready for operation. The pre-pressure is maintained.

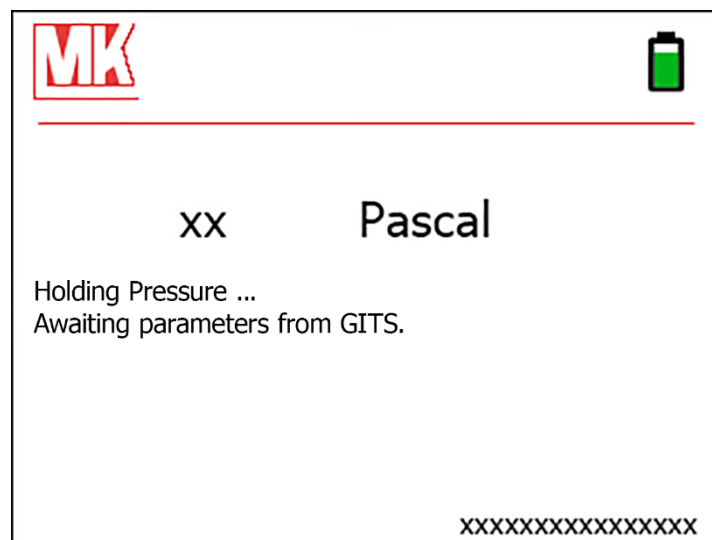


Figure 9: Display, Pressure is built up and maintained

- ✓ The Glove Test Device is inserted into the port and ready for operation (figure 9).

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5.3 Filling

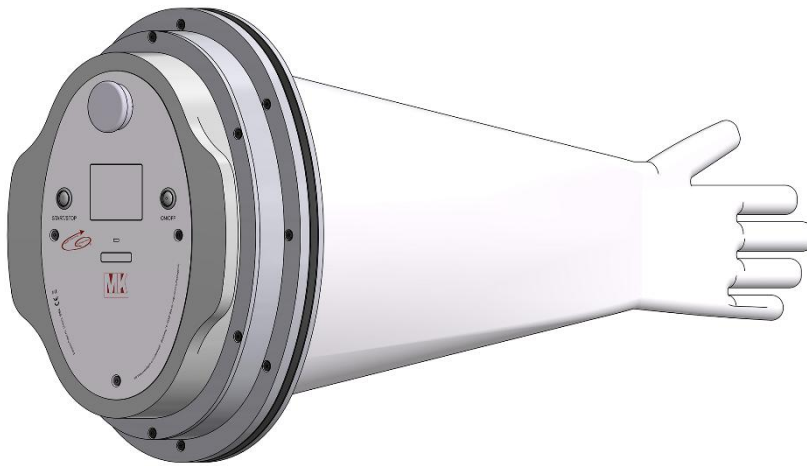


Figure 10: Glove Test Device with filled glove.

If the Glove Test Device is inserted ready for operation, as described in chapter 5.1, p. 12-14, the test can be started with the GITS software (see operating manual GITS software).

5.4 Remove

Remove the Glove Test Device from the port:

- Hold the Glove Test Device by the recessed grip (④ figure 1).
- Press the START/STOP button **twice**.
- ⇒ Seal is vented.
- ✓ Remove the Glove Test Device and press the ON/OFF switch.

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6. Decommissioning

6.1 Storage



Battery storage has other requirements. It is essential to observe the operating manual for the battery.

Store the Glove Test Device under the following conditions:

- Exclusively in the supplied transport case
- With battery removed
- Protected against moisture
- At relative humidity 30% - 70% RH
- Do not exceed or fall below the temperature range of +5°C – +35°C.

To remove the battery, proceed as described in chapter 4.2, p. 10-11.

6.2 Disposal



For disposal, the legal regulations for recycling and disposal of electrical equipment must be observed.

- Take the product to a collection point for waste electrical and electronic equipment.
- Do not dispose of in household waste.

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7. Maintenance

7.1 Cleaning

NOTICE

Material damage to the Glove Test Device possible due to incorrect cleaning.

- Do **not** autoclave the Glove Test Device
- Do **not** immerse the Glove Test Device in liquids.

The Glove Test Device may be treated with many conventional cleaning agents. Among others LpH, HPV, 70% isopropanol, Spor-Klenz RTU. There is also the possibility of disinfection with hydrogen peroxide.

If you decide to use a cleaning agent that is not mentioned, contact the manufacturer before cleaning to avoid damage to the Glove Test Device.

Dry the Glove Test Device immediately after cleaning.

7.2 Maintenance intervals

The Glove Test Device should be serviced by the manufacturer at least once a year. The maintenance date is shown in the display of the Glove Test Device.



Do not open the device yourself. All screw connections are sealed. If the seal is opened, any warranty claims will be voided.

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7.3 Packing and transporting

The Glove Test Device must be transported in the original transport case. The transport case is included in the scope of delivery.

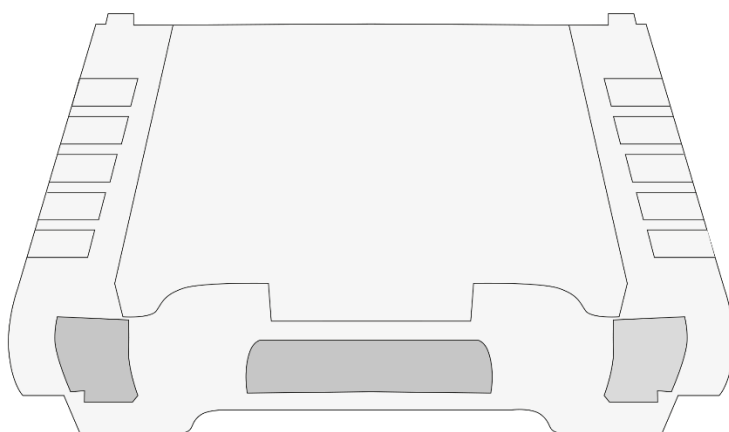


Figure 11: Transport case

Pack the Glove Test Device:



The Glove Test Device must not be shipped with the battery installed.

- Remove the battery from the Glove Test Device. Proceed as described in chapter 4.2, p. 10-11.
- Carefully place the Glove Test Device in the recess provided in the transport case and close it (figure 12).

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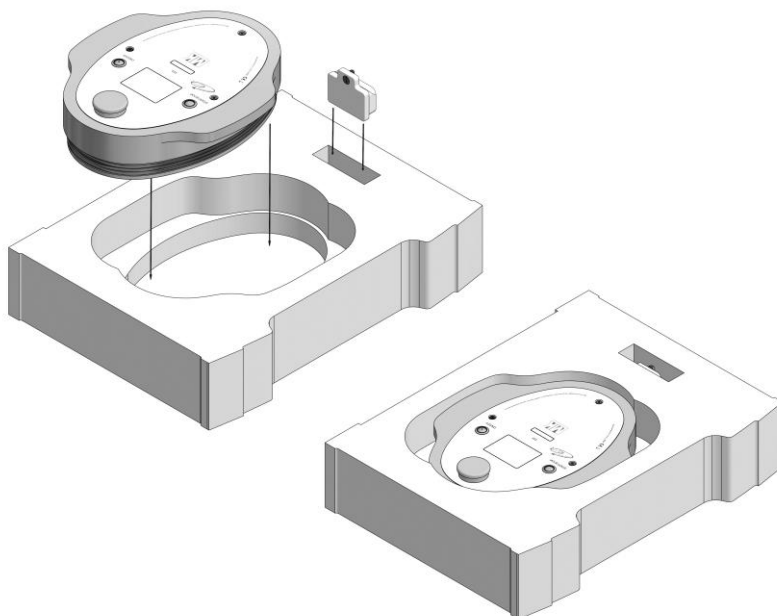


Figure 12: Insert the Glove Test Device into the transport case.

- Before sending, complete the following form <https://mk-versuchsanlagen.de/wp-content/uploads/2018/08/L-Error-description-and-certificate-of-decontamination.pdf> and attach it visibly to the outside of the shipment.
- When shipping several Glove Test Devices, we recommend packing the transport cases bundled in cardboard packaging (figure 13).

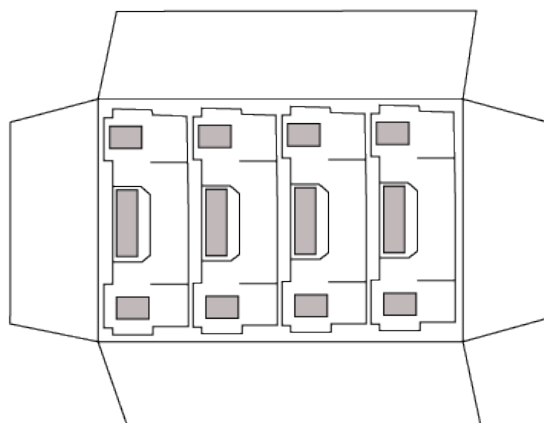


Figure 13: Transport cases packed

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Glove Test Devices that have not been sent in a transport case will only be returned in the transport case provided. The transport case will be charged afterwards.

8. Recognise and rectify faults

Fault	Cause	Correction
The Glove Test Device was switched off while it was fixed in a port. The Glove Test Device cannot be removed.	By switching off the Glove Test Device, the seal could not be vented.	➤ Press ON/OFF Switch ➤ Press START/STOP button ⇒ Glove Test Device switches to active mode. ➤ Press START/STOP button again twice within one second. ✓ Seal vented and Glove Test Device is removable.
Green LED on the ON/OFF Switch lights up. Display is switched off and the tester is fixed in the port.	The charge level of the battery has fallen below the lower limit. The Glove Tester shuts down and goes into energy-saving mode.	➤ Press ON/OFF switch ⇒ Glove Test Device is switched off ➤ Press ON/OFF switch again ⇒ The Glove Test Device restarts and is available for 10 seconds. ➤ Press START/STOP button within one second. ✓ Seal vented and Glove Test Device is removable.
<i>From firmware version 3.38</i> Message " Data corrupted. Please	An error has occurred while reading the graphic data of the test	➤ Contact manufacturer (see 1.8 Contact and service address))

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Fault	Cause	Correction
contact support" appears on the display.	device.	
<i>From firmware version 3.38</i> Message „No valid configuration found" appears on the display.	An error has occurred while reading the configuration of the test device.	➤ Contact manufacturer (see 1.8 Contact and service address))
The message „Info 101" appears in the display.	1) Seal of the Glove Test Device is defective. Port cannot be sealed. 2) Filter clogged. Necessary amount of air cannot be sucked in.	➤ Contact manufacturer (see 1.7 Contact and service address)
The message „Info 102" appears in the display.	1) Port is not sealed properly. 2) Glove is already so badly damaged that no pressure can be built up.	➤ Check port on: Correct size Damage Notches Deformity ➤ Replace glove if necessary.
Further info messages		➤ See operating manual for the GITS® software.

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9. Device conformity

The conformity of the test device with specified requirements and standards is listed below.

9.1 EU conformity

CE The test device complies with the current regulations of the European Union. Corresponding declarations are enclosed.

9.2 Radio system

9.2.1 FCC (Federal Communications Commission; USA)

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This test device may not cause harmful interference.
- This test device must accept any interference received, including interference that may cause undesired operation.

Caution

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

Note

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC RF radiation exposure statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

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9.2.2 IC (Industry Canada)

This test device complies with Industry Canada licence-exempt RSS standard(s).

Operation is subject to the following two conditions:

- This test device may not cause harmful interference.
- This test device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes:

- l'appareil ne doit pas produire de brouillage, et
- l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Radiation exposure statement (RSS-102)

This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.

Déclaration d'exposition aux radiations

Cet équipement est conforme Canada limites d'exposition aux radiations dans un environnement non contrôlé. Cet équipement doit être installé et utilisé à distance minimum de 20 cm entre le radiateur et votre corps.

10. Legal notes

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The test device is protected by the following patents: Europe, USA, Brazil, Canada, China, India, 2 741 067, 2018/0231433 A1, 2019/011326 A1, 11 2015 012023 7 A2, 2 893 283 A1, 104919296 A, 2017/0234760 A1, 10 2014 114 147 A1, 11 2017 006207 0 A2, 2960180 A1, 106796158 A, 3 201 593 A1, 201717015013 A, 2017/0219457 A1, 2019/0257709 A1. The MK Versuchsanlagen brand is protected and registered under the following patent numbers: 21258288, 21258287. The GITS® word mark is registered under register number 302012035894.