Instructions for use

Power socket strip PSS300

WARNING
To properly use this product, read and comply with these instructions for use.

Typographical conventions

1 Consecutive numbers indicate steps of action, with the numbering restarting with "1" for each new sequence of actions.

- Bullet points indicate individual actions or different options for action.

– Dashes indicate the listing of data, options, or objects.

(A) Letters in parentheses refer to elements in the related illustration.

A Letters in illustrations denote elements referred to in the text.

Bold, italicized text indicates labels on the device.

Safety information definitions

WARNING

A WARNING statement provides important information about a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

A CAUTION statement provides important information about a potentially hazardous situation which, if not avoided, may result in minor or moderate injury to the user or patient or in damage to the medical device or other property.

NOTE

A NOTE provides additional information intended to avoid inconvenience during operation.

Target groups

Duties of the operating organization

The tasks described in this document specify the requirements that have to be met by each respective target group.

The operating organization of this product must ensure the following:

– The target group has the required qualifications (e.g., has undergone specialist training or acquired specialist knowledge through experience).

– The target group has been trained to perform the task.

The target group has read and understood the chapters required to perform the task.

Description of target groups

The target groups may only perform the following tasks if they meet the corresponding requirements.

Service personnel

Task	Requirement
Installation	Specialist knowledge in electrical engineering and mechanics Experience in the servicing of medical devices
Basic service work (inspection, maintenance according to the "Maintenance" chapter)	

Reprocessing personnel

Task	Requirement
Reprocessing	Specialist knowledge in the reprocessing of medical devices

Symbols

For explanations, refer to section "Overview" in chapter "Symbols".

For your safety and that of your patients

General safety information

The following WARNING and CAUTION statements apply to general operation of the product.

WARNING and CAUTION statements specific to subsystems or particular features of the product appear in the respective sections of these instructions for use or in the instructions for use of another product being used with this product.

Strictly follow these instructions for use

WARNING

Risk of incorrect operation and of incorrect use

Any use of the product requires full understanding and strict observation of all sections of these instructions for use. The product must only be used for the purpose specified under "Intended use".

Strictly observe all WARNING and CAUTION statements throughout these instructions for use and all statements on product labels.

Failure to observe these safety information statements constitutes a use of the product that is inconsistent with its intended use.

WARNING

Risk if service is not performed regularly

If service is not performed regularly, malfunctions may occur, which can result in personal injury and property damage.

Perform the service in accordance with the chapter "Service".

WARNING

Risk of explosion or fire

The power socket strip is not approved for use in areas where oxygen concentrations above 25 Vol% or combustible or explosive gas mixtures are likely to occur.

WARNING

Risk of device malfunction

If there is a mains power supply failure in the hospital, devices connected to the power socket strip will not be supplied from the uninterruptible power supply.

- **Do not connect life-supporting devices without internal backup battery to the power socket strip.**
- **Ensure an alternative power supply for connected devices.**

WARNING

Risk of electric shock

Penetrating liquid may cause malfunctioning of the power socket strip, damage the device, and may endanger the patient or other persons.

- **Place it in a location where no liquids or electrically conductive parts can enter the sockets.**
- **Follow the instructions for use for the basic device with regard to the correct positioning of the power socket strip.**

WARNING

Risk of electric shock

Connecting devices to the power socket strip may result in increased leakage current. If the protective ground for one of these devices fails, the leakage current may exceed the permissible value.

- **Only connect devices to the power socket strip with the approval of the respective manufacturer.**
- **Only use the power socket strip for supplying power to equipment which is intended to form part of the medical system.**
- **Only use the power socket strip for supplying power to equipment which does not require the use of an isolation transformer.**
- **Have the leakage current checked by service personnel.**
- **If the permissible value is exceeded, make sure that an additional protective ground for the power socket strip is correctly connected to the potential equalization socket in the wall.**
- **If the permissible value is still exceeded after the additional protective ground is connected, connect the respective device to a separate power socket.**

WARNING

Risk due to modifications

Modifications to the product may lead to malfunctions and unforeseen risks. This may result in injury to the patient or the user or in property damage.

Do not modify this product.

WARNING

Risk of injury

The power socket strip is not designed for use in magnetic fields.

Do not use the power socket strip in magnetic resonance environments.

WARNING

Risk of electric shock

When the power socket strip is connected to ungrounded power socket, hazardous potential differences may result which can put the patient at risk.

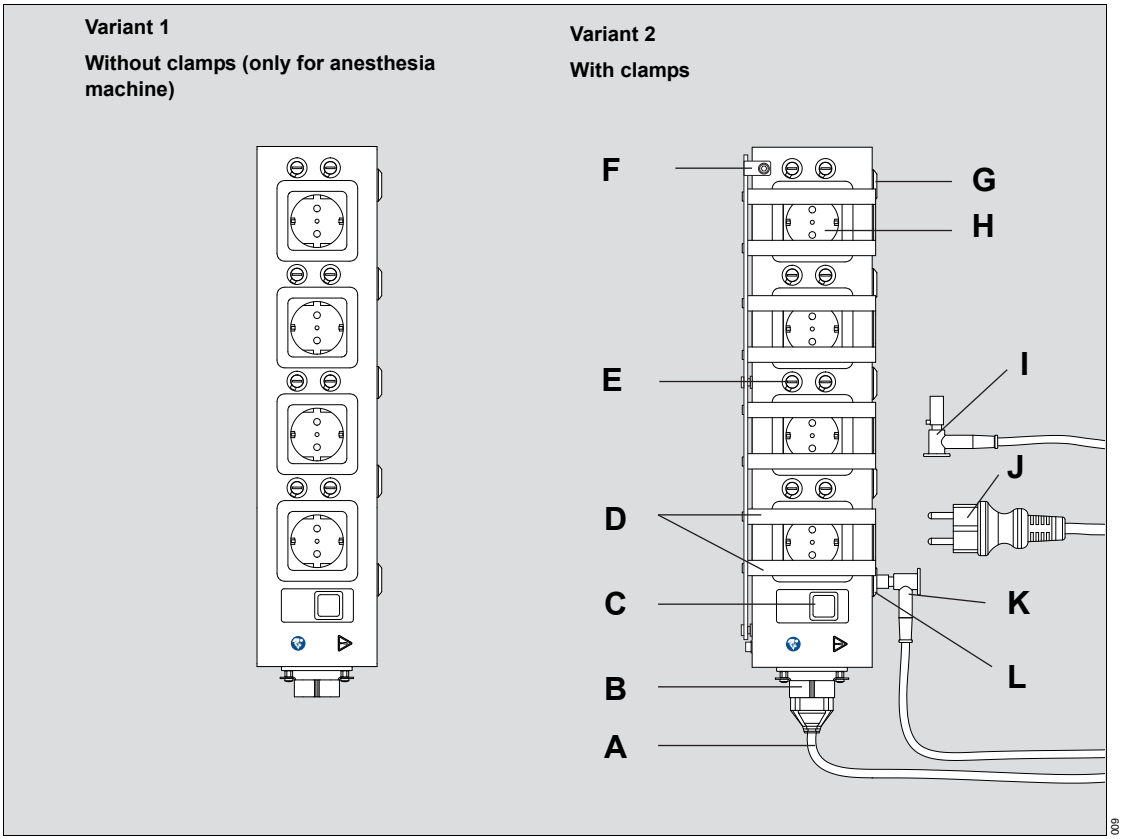
Always connect the power socket strip to a grounded power socket.

Intended use

The power socket strip provides multiple power sockets, allowing multiple medical devices to be powered at the same time.

Overview

The following images show different types of power socket strips (special-purpose relocatable power taps):



A Power cable

B Strain relief for power cable of the power socket strip

C Circuit breaker*

D Clamp to allow socket access only with the use of a tool

E Fuses per socket, 2 pieces each

F Lock bar

G Potential equalization connectors, 4 pieces

H Power sockets for auxiliary equipment, max. 4 pieces

I Optional lockable protective ground connector (wall-side)

J Plug for the mains power supply

K Optional lockable protective ground connector (socket-side)

L Protective earthing connector

* Not available in all countries

Symbols


Connection for potential equalization


Caution! Observe accompanying documents


Attention! (safety sign)


Warning! Strictly follow these instructions for use


MR unsafe


Protective Earth (Protective ground)


Manufacturer

Date of manufacture

Serial number

Ordering number


Storage temperature


Rel. humidity


Atmospheric pressure


WEEE marking


nominal weight: 3 kg

Positioning the power socket strip

WARNING

Risk of electrical hazard

The power socket strip is intended for permanent attachment to medical equipment and, therefore, must not be used on the floor.

- **The power socket strip without clamps must be mounted to the anesthesia machine. Follow the conversion instructions accompanying the power socket strip and the instructions for use for the anesthesia machine.**
- **For the power socket strip with clamps, follow the instructions for use for the basic device if applicable.**

– Observe IEC/EN 60601-1.

– Observe the conversion instructions for the basic device.

– Observe the instructions for use for the basic device.

If the power socket strip is used without clamps, it must only be used in combination with an anesthesia machine conforming to ISO 80601-2-13 or IEC 60601-2-13.

In all other cases, the power socket strip must be equipped with clamps or must be operated with a permanent connection to an isolation transformer conforming to IEC 60601-1.

Connecting the power socket strip

Important information

– The effects of the opening of a supplementary overcurrent protector, which may unintentionally disconnect lifesaving medical equipment from the mains power supply, needs to be considered in the end use.

WARNING

Risk of device malfunction

Exceeding the maximum current for each power socket or the total maximum current for the power outlet strip may lead to overheating or an interruption of the power supply for connected devices.

Do not exceed the maximum current for each power socket or the total maximum current as indicated on the device.

NOTE

The mains plug of the power socket strip must be freely accessible so that the power supply can be quickly interrupted in the event of device failure.

– Do not modify the medical electrical system without authorization by qualified service personnel.

– Connect the power socket strip to a hospital-grade power socket to provide protective grounding.

– If a connected device causes the leakage current to exceed the permissible value, proceed as follows:

  - Do not connect all devices to the power socket strip. Instead, use power sockets on the wall.

  or

- Establish a permanent connection between the power socket strip and an isolation transformer.

WARNING

Risk of device malfunction

The use of this power outlet strip does not ensure that a medical system compliant with any standard or specifications (such as local codes) will result.

- **The system must meet the requirements for medical electrical systems in accordance with IEC 60601-1 3rd ed. or IEC 60601-1-1.**
- **Assembly of a medical system requires knowledge of IEC 60601-1 3rd ed., IEC 60601-1-1 or medical systems.**
- **Only service personnel is allowed to assemble a medical system with this power outlet strip.**

WARNING

Risk of electrical hazard

Do not connect any additional power socket strips or extension cables to the power socket strip for medical devices.

The power socket strip may not be connected to medical devices that have an integrated power socket strip.

Connecting the lockable protective ground connector (option)

- Connect the protective ground connector to the potential equalization socket in the wall.

1 Using a suitable tool, turn the screw on the lockable protective ground connector counterclockwise as far as it will go. The lower part of the protective ground connector will be released.

2 Push the lower part in the direction of the yellow-green cap of the protective ground connector.

3 Plug the protective ground connector into the potential equalization socket in the wall.

4 Push the lower part towards the wall until it reaches the end position.

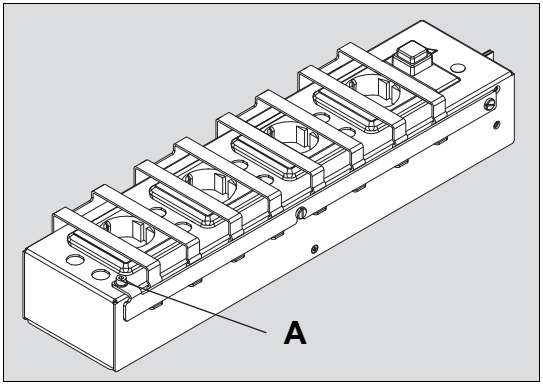
5 Fix the lower part with the screw. Using a suitable tool, turn the screw clockwise to tighten it.

- Insert the power plug of the power socket strip into the wall socket.

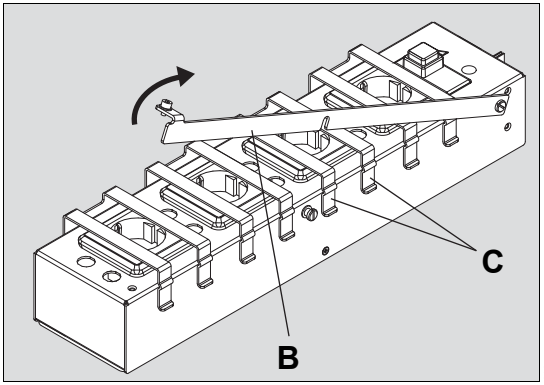
NOTE

During disassembly, the power plug for the power socket strip must be disconnected first, and then the lockable protective ground connector from the potential equalization socket in the wall.

Connecting a device to the power socket strip



1 Remove the hexagon socket screw (A).



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2 Turn the lock bar (B) to the other side.

3 Remove the clamp (C) from the relevant power socket.

4 Connect the power plug of the device to be connected to the power socket.

5 Reinsert the clamp into the corresponding hole on the power socket strip. Make sure that the power cable of the connected device runs between the two brackets of the clamp.

6 Turn the lock bar back and let it engage.

7 Tighten the screw (A) again.

WARNING

Risk of electric shock

Touching the patient and the contacts of the power socket strip simultaneously may result in increased leakage current.

Do not touch the patient while touching the contacts of the power socket strip.

Disconnecting a device from the power socket strip

1 Remove the respective clamp if necessary.

2 Pull the power plug of the connected device.

Immediate disconnection of all devices

1 Identify the power socket to which the power socket strip is connected.

2 Pull the power plug of the power socket strip.

- The power plug of the power socket strip must not be fixed permanently to a power socket on the wall, e.g. by means of screws.

WARNING

Risk of electric shock

During disconnection the power plug for the power socket strip must be pulled first, and then the lockable protective ground connector from the potential equalization socket in the wall.

Troubleshooting

Circuit breaker is tripped or the fuses are blown

1 Disconnect the power socket strip from the mains power supply.

2 Remedy the malfunction.

3 If the fuses are blown:
- Replace the fuses.
- Always use matching fuses according to the table on page 14.

4 If the circuit breaker has been tripped:
- If necessary, wait at least 2 minutes for the circuit breaker to cool.
- Press the push button of the circuit breaker back in.

5 Reconnect the power socket strip to the mains power supply.

Reprocessing

Disinfection

1 Unplug the power plug of the power socket strip.

2 Remove soiling immediately. Use a cloth dampened with disinfectant to remove soiling.

3 Perform surface disinfection. Follow the instructions for use for the main device.

4 Wipe with a cloth dampened with water (preferably drinking-water quality). Allow the product to dry.

5 Reconnect the power socket strip to a power socket.

WARNING

Risk of electric shock

Penetrating liquid may cause malfunctioning of the power socket strip, damage the device, and may endanger the patient or other persons.

When disinfecting the power socket strip, only perform surface disinfection by wiping.

Do not allow liquids to penetrate into the power socket strip. Follow the instructions for use for the main device.

Service

Safety information

WARNING

Risk of patient injury

If maintenance activities are carried out during operation, the patient will be put at risk.

Only carry out maintenance activities when there is no patient connected to the device.

WARNING

Risk due to inappropriately reprocessed products

The product may be contaminated with infectious agents.

Before service is performed and before the product is sent back for repair, reprocess the product in accordance with the chapter "Reprocessing".

WARNING

Risk when the housing is being opened

Under the housing, there are live electrical components, which may cause an electric shock.

The housing may only be opened by those target groups that are assigned to that particular measure.

WARNING

Risk if service is not performed regularly

Wear and material fatigue of the components may lead to device failure and malfunctions.

Perform service at the specified intervals.

WARNING

Risk if service is not performed properly

Personal injury and property damage may occur if service is not performed properly.

Service must be performed by those target groups that are assigned to the particular measure.

Definition of service terminology

Concept	Definition
Service	All measures (inspection, maintenance, repair) intended to maintain or restore the functional integrity of a product
Inspection	Measures intended to determine and assess the current state of a product
Maintenance	Regular specified measures intended to maintain the functional integrity of a product
Repair	Measures intended to restore the functional integrity of a product after a failure

Inspection

Regular inspections must be performed according to the following specifications and at the stated intervals.

Checks	Interval	Personnel responsible
Inspection and safety checks	Every 24 months[1)]	Service personnel

1) When the power socket strip is used in conjunction with a medical device which has a shorter inspection interval, the interval of the medical device also applies to the power socket strip.

Safety checks

WARNING

Risk of failure

If safety checks are not performed on a regular basis, the proper operation of the power socket strip can be compromised.

Perform safety checks at the indicated intervals.

1 Check accompanying documents:
- Up-to-date instructions for use are available.

2 Check that the device combination is in good condition:
- All labels are complete and legible
- There is no visible damage to:
  - Housing parts
  - Power sockets
  - Cables
  - Strain relief
- Fuses which are accessible from the outside are in compliance with the specified values

3 Check the electrical safety according to IEC 62353.

Repair

Dräger recommends that all repairs are performed by DrägerService and that only authentic Dräger repair parts are used.

Disposal of the product

At the end of its useful life, dispose of the product in accordance with the applicable legal provisions.

Technical data

Environmental Conditions

Operation conditions

Temperature	0 to 40 °C (32 to 104 °F)
Ambient pressure	570 to 1100 hPa (8.27 to 15.95 psi)
Rel. humidity	5 to 95 % (without condensation)

Storage conditions

Temperature	–20 to 60 °C (14 to 140 °F)
Ambient pressure	500 to 1100 hPa (7.25 to 15.95 psi)
Rel. humidity	5 to 95 % (without condensation)

Specifications

Socket type	Mains voltage	Maximum current	Frequency	Fuses for power sockets IEC 60127-2/V, 250 V	Fuse order number
Type F	220 to 240 V AC	14 A	50/60 Hz	T 4 A H 250 V x8	2603918
Type G	220 to 240 V AC	12 A	50/60 Hz	T 3.15 A H 250 V x8	1866222
Type E	220 to 240 V AC	14 A	50/60 Hz	T 4 A H 250 V x8	2603918
Type I	220 to 240 V AC	8 A	50/60 Hz	T 3.15 A H 250 V x8	1866222
Type B	100 to 125 V AC	12 A	50/60 Hz	T 3.15 A H 250 V x8	1866222
Type J	220 to 240 V AC	8 A	50/60 Hz	T 3.15 A H 250 V x8	1866222
Type K	220 to 240 V AC	8 A	50/60 Hz	T 3.15 A H 250 V x8	1866222
Type N	100 to 127 V AC 220 to 240 V AC	14 A	50/60 Hz	T 4 A H 250 V x8	2603918
Type I (CN)	220 to 240 V AC	8 A	50/60 Hz	T 3.15 A H 250 V x8	1866222
Type H	220 to 240 V AC	14 A	50/60 Hz	T 4 A H 250 V x8	2603918
The sum of the power current of all connected devices may not exceed the above mentioned sum current.					

Dimensions (W x H x D)	390 x 90 x 60 mm (15.35 x 3.54 x 2.36 in)
Weight, without power cable	approx. 3 kg (approx. 6.61 lb)
Electrical safety	Tested according to IEC 60601-1 or UL 60601-1, Class I
Classification in accordance with Directive 93/42/EEC Annex IX and REGULATION (EU) 2017/745	Class I
UMDNS Code (Universal Medical Device Nomenclature System)	17-603
Penetration of liquids	IP20 in accordance with IEC 60529

Device combinations

This product may be operated in conjunction with other Dräger devices or with devices from third party manufacturers. Observe the documents accompanying the individual devices.

If a device combination is not approved by Dräger, safety and functional integrity of the individual devices may be compromised. The operating organization must ensure that the device combination conforms to the applicable versions of the relevant standards for medical devices.

Device combinations approved by Dräger meet the requirements of the following standards:

– IEC 60601-1, 3rd Edition (device combinations)

Or:

– IEC 60601-1-1, (device combinations)

CE MD

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