Instructions for use

Power socket strip for medical devices

WARNING
To properly use this medical device, 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.

Trademarks

Trademark	Trademark owner
DrägerService®	Dräger

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.

Definition of target group

For this product, users, service personnel, and experts are defined as target groups.

These target groups must have received instruction in the use of the product and must have the necessary training and knowledge to use, install, reprocess, maintain, or repair the product.

The product must be used, installed, reprocessed, maintained, or repaired exclusively by defined target groups.

Users

Users are persons who use the product in accordance with its intended use.

Service personnel

Service personnel are persons who are responsible for the maintenance of the product.

Service personnel must be trained in the maintenance of medical devices and install, reprocess, and maintain the product.

Experts

Experts are persons who perform repair or complex maintenance work on the product.

Experts must have the necessary knowledge and experience with complex maintenance work on the product.

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.

Maintenance

WARNING

Risk of product failure and of patient injury

The product must be inspected and serviced regularly by service personnel. Repair and complex maintenance carried out on the product must be performed by experts.

If the above is not complied with, product failure and patient injury may occur.

Dräger recommends that a service contract is obtained with DrägerService and that all repairs are performed by DrägerService. For maintenance Dräger recommends the use of authentic Dräger repair parts.

Not for use in areas of explosion hazard

WARNING

Risk of explosion or fire

The medical device 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 auxiliary power sockets will not be supplied from the uninterruptible power supply.

- **Do not connect any life-supporting devices to the auxiliary power sockets.**
- **Ensure an alternative power supply for connected devices.**

WARNING

Risk of electric shock

Penetrating liquid may cause malfunctioning of the power socket strip, damage to 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.

WARNING

Risk of electric shock

Connecting devices to auxiliary power sockets 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 auxiliary power sockets with the approval of the respective manufacturer.**
- **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.**

Intended use

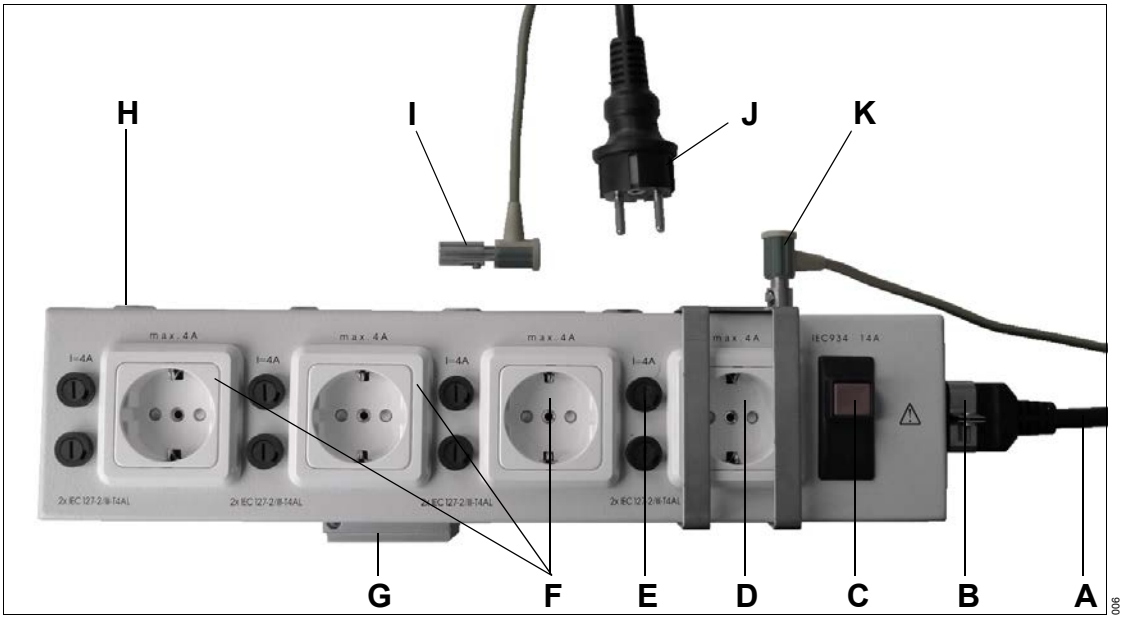
The power socket strip for medical devices is intended for use in the following application areas:

- for use with medical devices according to their technical specifications
- to supply power to the basic device (e.g., anesthesia workstation) via the power socket with mechanical strain relief
- to supply power to up to 3 additional medical devices (conforming to IEC 60601-1 / UL 60601-1), provided they are approved as a system by the manufacturer and are described in the instructions for use, the assembly instructions, or the list of accessories
- for stationary use – here, the power socket strip must be fixed to the basic device

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

Overview

Shown: Example of power socket strip (DIN 49400)



A Power cable

B Strain relief for power cable of the power socket strip

C Main fuse

D Socket for basic device, socket secured against unintentional removal via strain relief

E Fuses per socket, 2 pieces each

F Sockets for auxiliary equipment, max. 3 pieces

G Adapter for profile rail on the rear side of the power socket strip

H Potential equalization connectors, 5 pieces

I Lockable protective ground connector (wall-side)

J Plug for the mains power supply

K Lockable protective ground connector (socket-side)

Symbols

Observe leakage current

Connection for potential equalization

Caution! Observe accompanying documents

Warning! Strictly follow these instructions for use

Protective Earth (Protective ground)

Manufacturer

Date of manufacture

SN

Serial number

REV

Ordering number

Storage temperature

Rel. humidity

Atmospheric pressure

WEEE marking, Directive 2002/96/EC

Positioning the power socket strip

– Observe IEC/EN 60601-1.

– Observe the conversion instructions for the basic device.

– Observe the instructions for use for the basic device.

Connecting the power socket strip

WARNING

Electrical hazard possible!

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

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

NOTE

The distance between the power socket on the wall and the potential equalization socket mounted in the wall must be no more than 0.25 m (0.82 ft).

- 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.
- Push the lower part in the direction of the yellow-green cap of the protective ground connector.
- Plug the protective ground connector into the potential equalization socket in the wall.
- Push the lower part towards the wall until it reaches the end position.
- Fix the lower part with the screw. Using a suitable tool, turn the screw clockwise to tighten it.

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

3 Insert the power plug of the basic device into the first socket (D) of the power socket strip. The socket must be secured against unintentional removal via the strain relief.

NOTE

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

Cleaning and disinfection

If the power socket strip or the cable are not clean:

1 Pull the power cable of the power socket strip out of the wall socket.

2 Wipe the power socket strip and cable with a damp cloth. Do not complete the disinfection using a spray!

WARNING

Risk of electric shock

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

All parts must only be disinfected by wiping with a damp cloth, while ensuring that no liquid seeps inside the device.

Maintenance

Overview

This chapter describes the maintenance measures required to maintain the proper functioning of the medical device.

Maintenance measures must be performed by the personnel responsible.

WARNING

Risk of infection

The personnel responsible can become infected with pathogenic germs.

Disinfect and clean device or device parts before any maintenance measures and also before returning the medical device for repair.

WARNING

Risk of electric shock

Live components are located under the housing cover.

- **Do not remove the housing cover.**
- **Maintenance work must be performed by the personnel responsible. Dräger recommends DrägerService for repairs and complex servicing work.**

Definitions of maintenance concepts

Concept	Definition
Maintenance	All measures (inspection, preventive maintenance, repair) intended to maintain and restore the functional condition of a medical device
Inspection	Measures intended to determine and assess the actual state of a medical device
Preventive maintenance	Recurrent specified measures intended to maintain the functional condition of a medical device
Repair	Measures intended to restore the functional condition of a medical device after a device malfunction

Inspection

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

Checks	Interval	Personnel responsible
Inspection and safety checks[1)]	Every 24 months[2)]	Service personnel

1) Designation applies in the Federal Republic of Germany; it corresponds to the "Recurring safety inspection" in the Republic of Austria
2) When the power socket strip is used in conjunction with a medical device which has a shorter inspection interval, the interval for the outlet is shortened.

Safety checks

WARNING

Risk of medical device failure

If safety checks are not performed on a regular basis, the proper operation of the medical device can be compromised.

Perform safety checks at the indicated intervals.

1 Check accompanying documents:
- Up-to-date instructions for use present

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 carried out by DrägerService and that only authentic Dräger repair parts are used.

Disposal

For countries subject to EU Directive 2002/96/EC:

This device is subject to EU Directive 2002/96/EC (WEEE). In order to comply with its registration according to this directive, the device may not be disposed of at municipal collection points for waste electrical and electronic equipment. Dräger has authorized a company to collect and dispose of this device. To initiate take-back or for further information, visit us on the Internet at www.draeger.com and navigate to the DrägerService area where you will find a link to "WEEE". If you have no access to the website, contact your local Dräger organization.

Technical data

Environmental Conditions

During operation	
Temperature	10 to 35 °C (50 to 95 °F)
Air pressure	700 to 1060 hPa (10.15 to 15.37 psi)
Rel. humidity	20 to 80 % (non-condensing)
During storage	
Temperature	–10 to 60 °C (14 to 140 °F)
Air pressure	500 to 1060 hPa (7.25 to 15.37 psi)
Rel. humidity	10 to 90 % (non-condensing)

Specifications

Country	Socket standard	Mains voltage	Sum current	Frequency	Fuses for power sockets IEC 60127-2/III, 250 V	Dräger ordering number
Germany, Netherlands, Austria, Spain	DIN 49440/ CEE 7/4	230 V AC	14 A	50/60 Hz	T 4 A L	G92202
Great Britain	BS 1363	230 V AC	12 A	50/60 Hz	T 3.15 A L	G92545
France, Belgium	UTE NFC 61-303, CEE 7/NV	230 V AC	14 A	50/60 Hz	T 4 A L	2603820
Australia	AS 3112	240 V AC	8 A	50/60 Hz	T 3.15 A L	2603821
USA, Japan, Canada	NEMA 5-15R, ANSI C73 5-15P	100 to 120 V AC	12 A	50/60 Hz	T 3.15 A L	G92558 8608965
Switzerland	SN SEV 1011	230 V AC	8 A	50/60 Hz	T 3.15 A L	2603822

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 lbs)

Electrical safety

Tested according to EN 60601-1 or UL 60601-1 for G92558, Protection Class I

Classification
in accordance with Directive 93/42/EEC Annex IX

Class I

UMDNS Code
(Universal Medical Device Nomenclature System)

17-603

GMDN-Code
(Global Medical Device Nomenclature)

17-603

Device combinations

This medical device 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 that are approved by Dräger conform to the requirements of the following standards (where applicable):

- IEC 60601-1, 3rd Edition (general safety requirements, device combinations, software-controlled functions)
  - IEC 60601-1-2 (electromagnetic compatibility)

Or:

- IEC 60601-1, 2nd Edition (general safety requirements)
  - IEC 60601-1-1 (device combinations)
  - IEC 60601-1-2 (electromagnetic compatibility)

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CE
Directive 93/42/EEC
concerning medical devices

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