



# **Operating Instructions for the Manufacturer Of the End Product Handset**

**IPROXX<sup>®</sup> SM/SM+/SMP**



# IPROXX® SM/SM+/SMP

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## General Information

These Operating Instructions are intended for the manufacturer of the end product and not for the end user, the latter case requiring Operating Instructions, Directions for Use combined with the complete drive system.







**Note:** Keep the handset well away from **magnetic objects and strong magnetic fields**. The integrated locking device may accidentally be activated or deactivated.

In order to guarantee single-fault protection you can lock the actuator movements via the integrated locking device. In doing so, the motor circuits are disconnected by electromechanic switch elements.

- turn the locking switch to mode "locked",
- check this by activating the adjustment key,
- if locking is activated but movements will still be possible please exchange handset for a new one.

## General symbols on the back of the handset

-  Handset locked (SM/SM+/SMP)
-  Handset released (SM/SM+/SMP)
-  Patient functions released (SM+/SMP)
-  Change Mode for nursing staff / care personnel (SMP)

## Designated Use

The Handset **I**PROXX<sup>®</sup> is **intended for connect** with DEWERT drive control unit of Type CARE (L), HOSP (L), i.e. MCL, SGAG, etc.

The Handset **I**PROXX<sup>®</sup> is **not intended for use ...**

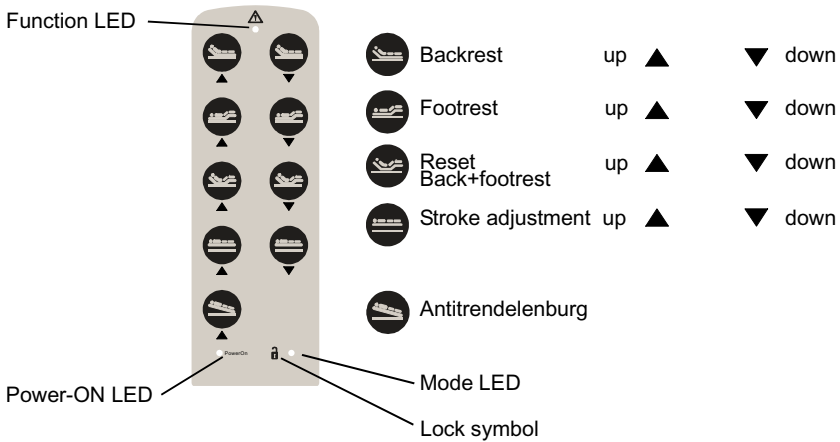
- in the proximity **high-frequency surgical equipment and defibrillators**,
- in an environment where **flammable** or **explosive** gases or vapours (e.g. anaesthetics) are likely to occur,
- in a damp environment, i.e. outdoors or
- in beds intended for cleaning in wash tunnels.

# IPROXX® SM/SM+/SMP

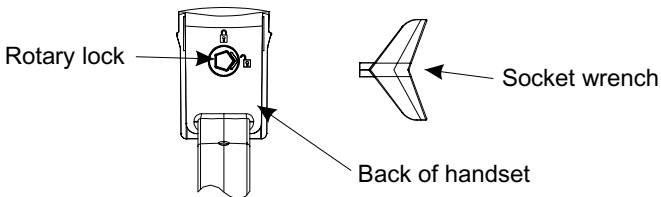
## Handset IPROXX® SM

### Key Configuration

Example: Handset IPROXX® SM with 9 adjustment keys.



### Back of IPROXX® SM handset



### Function of the locking device

By turning the socket wrench on the back of the IPROXX® handset, 2 modes can be released or locked.

- To put the handset into operation, connect it to a **DEWERT control unit<sup>1)</sup>** or a **DEWERT drive<sup>1)</sup>** with integral control PCB. The keypad of the plugged in handset is completely locked (🔒) (Mode locked). The Mode LED next to the lock **doesn't glow**, the Power-ON LED **glows dimly**.
- By turning the socket wrench, the adjustment functions on the handset can be released (🔓), these vary depending on the model (Mode released). The Mode LED next to the lock **glows green**, the Power-ON LED **glows brightly**.


<sup>1)</sup> Consult your customer contact beforehand in order to prevent any possible **damage** to the product.

## Putting into operation

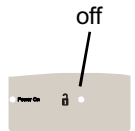
Connect the handset to the DEWERT system.




### Mode locked

Socket wrench turned to , handset is completely locked.

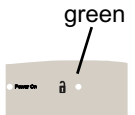
Mode LED **doesn't glow**. Power-ON LED **glows dimly**.



### Mode released

Socket wrench turned to , handset adjustment functions are released.

Mode LED **glows green**. Power-ON LED **glows brightly**.



## Functions of the display

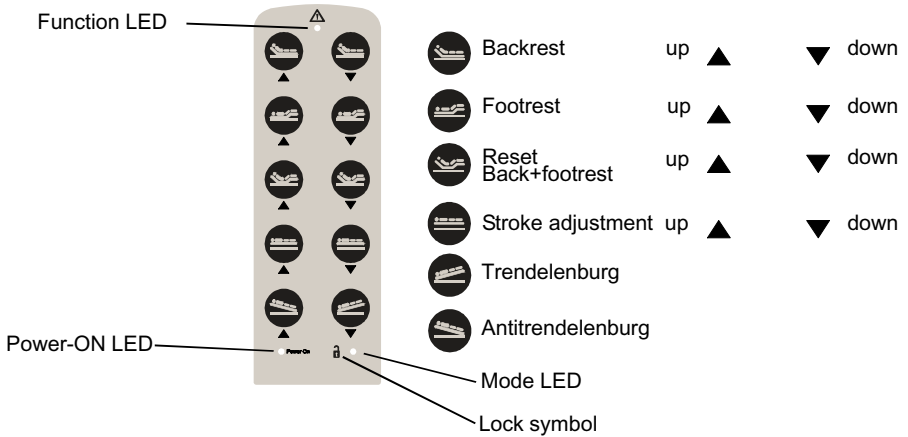
- |              |   |
|--------------|---|
| Function LED | - LED <b><u>glows green</u></b> when a key is pressed,<br>visual display of first-error security.   |
| Power-ON LED | - LED <b><u>glows constantly</u></b> when mains / battery voltage available   |
|              | - <b>Battery-powered operation</b> (mains voltage not available)<br>LED <b><u>glows only</u></b> when key is pressed  |
|              | - <b>with battery charging circuit</b><br>LED <b><u>flashes yellow</u></b> when battery is charging.<br>LED <b><u>glows constantly</u></b> when battery is fully charged or is not<br>connected during mains operation. |
|              | - <b>without battery charging circuit</b><br>LED <b><u>glows constantly</u></b> when connected to the mains.  |

# IPROXX® SM/SM+/SMP

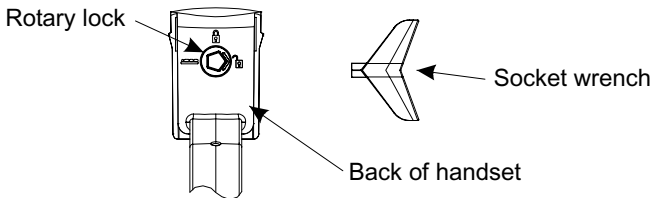
## Handset IPROXX® SM+

### Key Configuration

Example: Handset IPROXX® SM+ with 10 adjustment keys.



### Back of IPROXX® SM+ handset




### Function of the locking device

By turning the socket wrench on the back of the IPROXX® handset, 3 modes can be released or locked.

- To put the handset into operation, connect it to a **DEWERT control unit<sup>1)</sup>** or a **DEWERT drive<sup>1)</sup>** with integral control PCB. The keypad of the plugged in handset is completely locked (🔒) (Mode locked). The Mode LED next to the lock **doesn't glow**, the Power-ON LED **glows dimly**.
- By turning the socket wrench to the symbol (🔓) (patient function), the adjustment functions on the handset can be released, these vary depending on the model (Mode Patient). The Mode LED next to the lock **glows green**, the Power-ON LED **glows brightly**.

<sup>1)</sup> Consult your customer contact beforehand in order to prevent any possible **damage** to the product.

- By turning the socket wrench to the symbol  , the adjustment functions on the handset can be released for the **nursing staff / care personnel**. These functions vary depending on the model (Mode released). The Mode LED next to the lock **glows yellow**, the Power-ON LED **glows brightly**.


## Function Diagram IPROXX® SM+

### Putting into operation

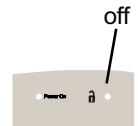
Connect the handset to the DEWERT system.




### Mode locked

Socket wrench turned to  , handset is completely locked.

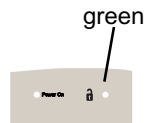
Mode LED **doesn't glow**. Power-ON LED **glows dimly**.



### Mode Patient

By turning the socket wrench to the symbol  (patient function), the adjustment functions on the handset can be released for the **patient**.

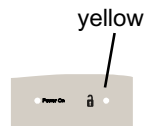
Mode LED **glows green**, Power-ON LED **glows brightly**.



### Mode released

By turning the socket wrench to  , the adjustment functions on the handset are released for the **nursing staff / care personnel**.

Mode LED **glows yellow**. Power-ON LED **glows brightly**.



# IPROXX® SM/SM+/SMP

## Function of the display

- Function LED
- LED **glows green** when a key is pressed, visual display of first-error security.
- Power-ON LED
- LED **glows constantly** when mains / battery voltage available
  - **Battery-powered operation** (mains voltage not available)  
LED **glows only** when key is pressed
  - **with battery charging circuit**  
LED **flashes yellow** when battery is charging.  
LED **glows constantly** when battery is fully charged or is not connected during mains operation.
  - **without battery charging circuit**  
LED **glows constantly** when connected to the mains.



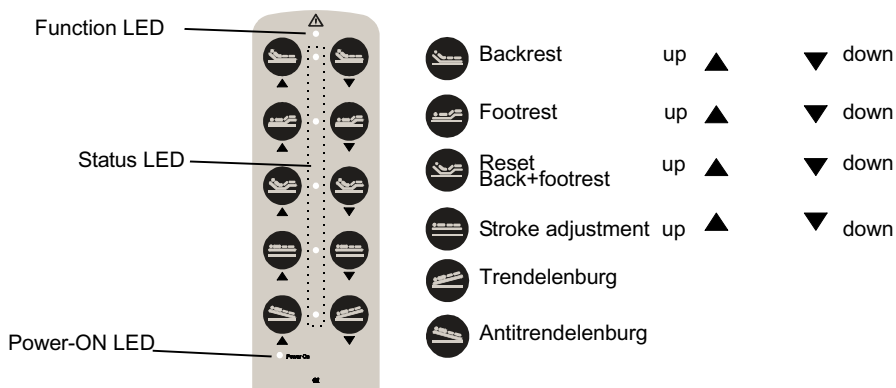
**DEWERT**

A Phoenix Mecano Company

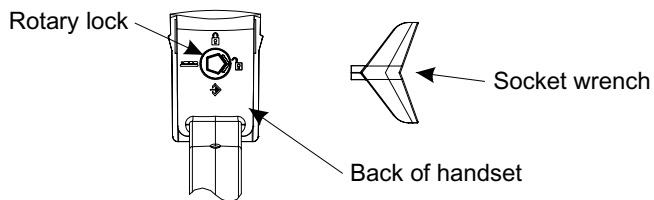
# Handset IPROXX® SMP

## Key Configuration

Example: Handset IPROXX® SMP with 10 adjustment keys.



## Back of IPROXX® SMP handset



# IPROXX® SM/SM+/SMP

## Function of the locking device

By turning the **socket wrench** on the back of the IPROXX® handset, 4 modes can be released or locked.

- To put the handset into operation, connect it to a **DEWERT control unit<sup>1)</sup>** or a **DEWERT drive<sup>1)</sup>** with integral control PCB. The keyboard of the plugged in handset is completely locked (🔒) (Mode locked).  
The Mode LED next to the lock **doesn't glow**, the Power-ON LED **glows dimly**.
- By turning the **socket wrench** to the symbol (🔓), the adjustment functions on the handset can be released for the **nursing staff / care personnel**. These functions vary depending on the model (Mode released). The Status LED's between all the adjustment keys **glow yellow**, the Power-ON LED **glows brightly**.
- By turning the **socket wrench** to the symbol (🔧) (programming), the adjustment functions on the handset can be programmed for the patient (Mode Programming). These functions are released or locked in pairs.  
Programming: By pressing an adjustment key (UP or DOWN) unlocks or locks the corresponding key pair. If the Status LED between the adjustment keys **glows yellow**, the function on the IPROXX handset is released, the Power-ON LED **glows brightly**.
- By turning the **socket wrench** to the symbol (👤) (patient function), the programmed adjustment functions on the IPROXX handset are released for the patient (Mode Patient). The Status LED's between the respective pairs of keys **glow yellow** when the function is released. The Status LED's **do not glow** when the key pair is locked. The Power-ON LED **glows brightly**.


<sup>1)</sup> Consult your customer contact beforehand in order to prevent any possible **damage** to the product.

## Putting into operation

Connect the handset to the DEWERT system.




### Mode locked

Socket wrench turned to , handset is completely locked.

Status LED **doesn't glow**, Power-ON LED **glows dimly**.




### Mode released

Socket wrench turned to , the adjustment functions on the handset can be released for the **nursing staff / care personnel**.

Status LED **glows yellow**, Power-ON LED **glows brightly**.




### Mode Programming

Socket wrench turned to , (Programming) and pressed the respective adjustment key, the adjustment functions on the IPROXX® can be programmed in pairs for the patient (released resp. locked).

Status LED's of released function(s) **glow yellow**, Power-ON LED **glows brightly**.



### Mode Patient

Socket wrench turned to , (patient function), the programmed adjustment functions on the IPROXX® handset are released resp. locked for the patient.

Status LED's of released functions **glow yellow**, Status LED's of locked functions **do not glow**, Power-ON LED **glows brightly**.

# IPROXX® SM/SM+/SMP

## Function of the display

- Function LED - LED **glows green** when a key is pressed, visual display of first-error security.
- Power-ON LED - LED **glows constantly** when mains / battery voltage available
- **Battery-powered operation** (mains voltage not available)  
LED **glows only** when key is pressed
  - **with battery charging circuit**  
LED **flashes yellow** when battery is charging.  
LED **glows constantly** when battery is fully charged or is not connected during mains operation.
  - **without battery charging circuit**  
LED **glows constantly** when connected to the mains.
- Status LED (SMP) - LED's **glow yellow**, the corresponding adjustment keys are released.
- LED's **do not glow**, the corresponding keys are locked.

## Maintenance and Repairs

At regular intervals carry out the inspections in accordance with the BGV A3 (Instruction of the Professional Trade Association). The inspections must be performed by an electrical specialist.

The recommended inspection period in accordance with the BGV A3 is: **6 months** .

### Check

In addition to the above, the following checks should be carried out at shorter intervals:

- **Regular visual checks for damage of all kinds**  
Check the housing for cracks and fractures and the connection lead for signs of pinching and shearing-off. Also check the strain relief with kink protection, in particular after each case of mechanical loading.
- **Regular checks of the leakage currents** (by a specialist).
- **Regular functional checks of the Handset.**



## Trouble-shooter's Guide to Detect and Eliminate Faults

The following table has been developed to help you detect and eliminate common faults. If you come across a fault that is not listed here, please contact your supplier.

<b>Problem</b>	<b>Possible Cause</b>	<b>Remedy</b>
Mode LED / Lock LED glows in the locked state	- Fault in the handset	- Contact your supplier/ dealer
Mode LED / Lock LED doesn't glow in the released state	- Fault in the handset - Fault in the control unit	- Contact your supplier/ dealer
No adjustment can be made	- Handset is locked - Control unit / drive defective - If necessary, check the locking device - Check voltage supply - Check connection leads - Battery discharged or not connected	- Use socket wrench to release the handset
The Function LED doesn't glow when a key is pressed (control unit / drive with first-error security only)	- Control unit / drive or handset defective	- Contact your supplier/ dealer
The Function LED glows all the time (control unit / drive with first-error security only)	- Control unit / drive defective	- Contact your supplier/ dealer
Power-ON LED does not glow. (Handset is locked, exception battery-powered operation)	- Fault in the handset	- Contact your supplier/ dealer
Power-ON LED glows brightly. (Handset is locked)	- Fault in the handset	- Contact your supplier/ Dealer

# IPROXX® SM/SM+/SMP

## Cleaning

The cleaning of the **handset IPROXX®**, has been made even easier thanks to the large number of flat surfaces.

The **handset IPROXX®** should be cleaned with a proprietary cleaning agent suitable for **pp and ABS** using a damp cloth. Always note the instructions provided by the manufacturer of the respective cleaning agent used.

**Before cleaning, always pull out the mains plug of the drive system!**

**Never clean** the handset in a wash tunnel or with a **high-pressure cleaner nor spray liquids** onto it. You risk damaging the equipment!

When **cleaning** take care not to **damage** the **connection cable!**

Do not use **any solvents** such as **benzene, alcohol** or similar substances.

## Disposal

The **handset IPROXX®** contains electronic components, cables, metal, plastic etc. The **handset IPROXX®** may not be disposed of with the normal household waste and it should be disposed of in accordance with the environmental regulations applicable in the respective country. Information on this subject can also be obtained from:

Federal Association for  
Disposal Management BDE  
Behrenstraße 29  
D-10117 Berlin  
Germany  
Phone: +49 (0) 30-59 00 33 5-0  
[www.bde-berlin.de](http://www.bde-berlin.de)

### Notes on environmental directives and legislation

- The product complies with the European Directive 2002 / 95 / EC (RoHS as of 01.07.2006).
- The product is not subject to the European Directive 2002 / 96 / EC (WEEE) and its amendment EU Directive 2003 / 108 / EC.

**The Handset IPROXX® may not be disposed of with the normal household waste! (Ordinance on Disposal of Old Batteries).**



## EC Declarations

### EC Declaration of Conformity

according to appendix I of the EC Directive on Electromagnetic Compatibility 89/336/EEC,

The Manufacturer:

**DEWERT**  
**Antriebs- und Systemtechnik GmbH**  
**Weststr. 1**  
**32278 Kirchlengern**  
**Germany**

hereby declares that the drive system described below

**IPROXX<sup>®</sup> with DEWERT drive system**

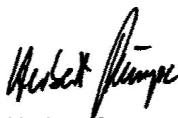
meets the health and safety requirements of the following EC Directives:

**Directive on Electromagnetic Compatibility 89/336/EEC**

Applied Standards:

**EN 55014-1**  
**EN 55014-2**  
**EN 61000-3-2**  
**EN 61000-3-3**  
**EN 60601-1-2**  
**EN 1970, main section 5.12**

Constructional changes which affect the technical data stated in the Installation Instructions as well as the designated use, in other words which change the drive system in a considerable way, make this Declaration of Conformity null and void!



Herbert Stumpe  
Management

Kirchlengern, 12th December 2006



A Phoenix Mecano Company

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ID no. 56171