B BRAUN
SHARING EXPERTISE

Space^{plus} Perfusor®

Instructions for use

CE 0123

LLDorder 5130 - lw 171127 (Basis DE_v23)

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About these instructions for use

1 About these instructions for use

1.1 Purpose of these instructions for use

These instructions for use are part of the device and describe how to use the device safely and correctly.

- Read these instructions for use before using the pump!
- Keep the instructions for use near the pump!
- Please read and follow the accompanying documents!

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1;2;3 p.d. 2.19; 1.19

Therefore, in KVO mode, a very low, non-therapeutic rate is delivered.

If the KVO mode is activated in the device settings, the pump asks you whether you would like to start KVO after the programmed infusion time or the programmed volume.

The KVO rate depends on the rate of infusion and can vary depending on the configuration.

9.11 Changing the device settings

You can change the device settings via the Home menu.

Which settings you can change depends on the configuration of the pump and may vary.

Menu	Meaning
	Activate or deactivate code lock
	Activate or deactivate KVO
e	Set the standard bolus rate
Plevel	Set the cut-off pressure from)
Audio volume	Set audio volume f
Display ss	Set the brightness f
Language	Select language
Date & time	Set the date and time

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1;2;3 p.d. 2.8; 1.8

10.2 Programming an infusion with the library

Once you have accessed the drug library, the pump will guide you step-by-step through the following settings:

- Care unit
- Pump location
- Drug
- Patient profile
- Concentration of the drug
- Infusion profile

⚠

patient by ensuring

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1;2;3 p.d. 1.12; 1.15

12.4 Alarm priorities

The pump distinguishes between two types of alarm priorities.

High priority alarms are visually indicated by a red alarm window and the flashing of the red LED.

Lower-priority alarms will be marked with a yellow alarm window and the steady illumination of the yellow LED.

In addition, the acoustic signals of the two priorities are different from one other.

Depending on the configuration, the alarm can be forwarded via the staff call.

The different alarm types and priorities are described below:

Alarm type	Alarm colour (LED & alarm window)
Notification	Yellow
Reminders	Yellow / grey
Pre-alarm	Yellow
Operating alarm	Red
Device alarm	Red

Hints & alarms

1;2;3 p.d. 1.12

12.5 Alarm types

12.5.1 Notifications

Some notifications act like alarms because they have to be given special attention.

A notification provides information about an event on the pump. This may be directly related to delivery or to a basic function.

If a notification is generated during delivery, the infusion will continue.

Display notification	Meaning
Battery is	
	– Put the pump in stand-

Display notification	Meaning
Display touched for g	The display has been touched for more than 15 seconds without interruption.
Pump too hot	The pump has detected that the temperature is too high.
Pump too cold	

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Hints & alarms

Display notification	Meaning
KVO finished	KVO time has elapsed. – End the infusion or continue the infusion.
Syringe empty	No volume is left in the syringe. Due to the different tolerances of syringes from different manufacturers, some fluid may remain in the syringe. Restarting causes the syringe to be completely emptied until a pressure alarm is triggered. – Change the syringe or end the infusion.
Pressure too high	There is an occlusion in the infusion line. The set pressure level has been exceeded. Due to the different tolerances of syringes from third-party manufacturers, a pressure alarm can be triggered by high frictional forces on the syringe. The pump automatically reduces the post occlusion bolus. – Check that the line is not bent or damaged, that all connections are open and that all the filters are unblocked.

Display notification	Meaning
Code entry required	Someone has stopped the pump without entering the code or has tried to switch it off while the code lock was active. – Enter the correct code.
Syringe holder open	The syringe holder was opened while an infusion was in progress. – Close the syringe holder.
Syringe not fixed correctly	The syringe is not fixed correctly. – Replace the syringe.
Pump too hot	The pump has detected that the battery temperature is too high. – Lower the ambient temperature
Pump too cold	The pump has detected that the battery temperature is too low. – Increase the ambient temperature.
Battery empty	The battery is discharged. The battery alarm is signalled for 3 min. Then the pump will automatically turn off. – Connect the pump to the mains power.

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23 Technical data

Atitikimas direktyvai 2017/745

23.1 Pump

The technical data applies to all operation locations listed in the intended purpose including home use as well as emergency and transport situations (road ambulances, fixed-wing and rotary-wing air ambulances).

Parameter	Value
Type of device	Infusion syringe pump
Product classification	according to Directive 93/42 EEC and Regulation (EU) 2017/745:
Protection against liquids and particles	IP44
Power supply – Mains power supply – 12 V supply	
Power consumption – Mains power supply – 12 V supply	
Internal battery – Battery life	
– Recharging time	

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Notes

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