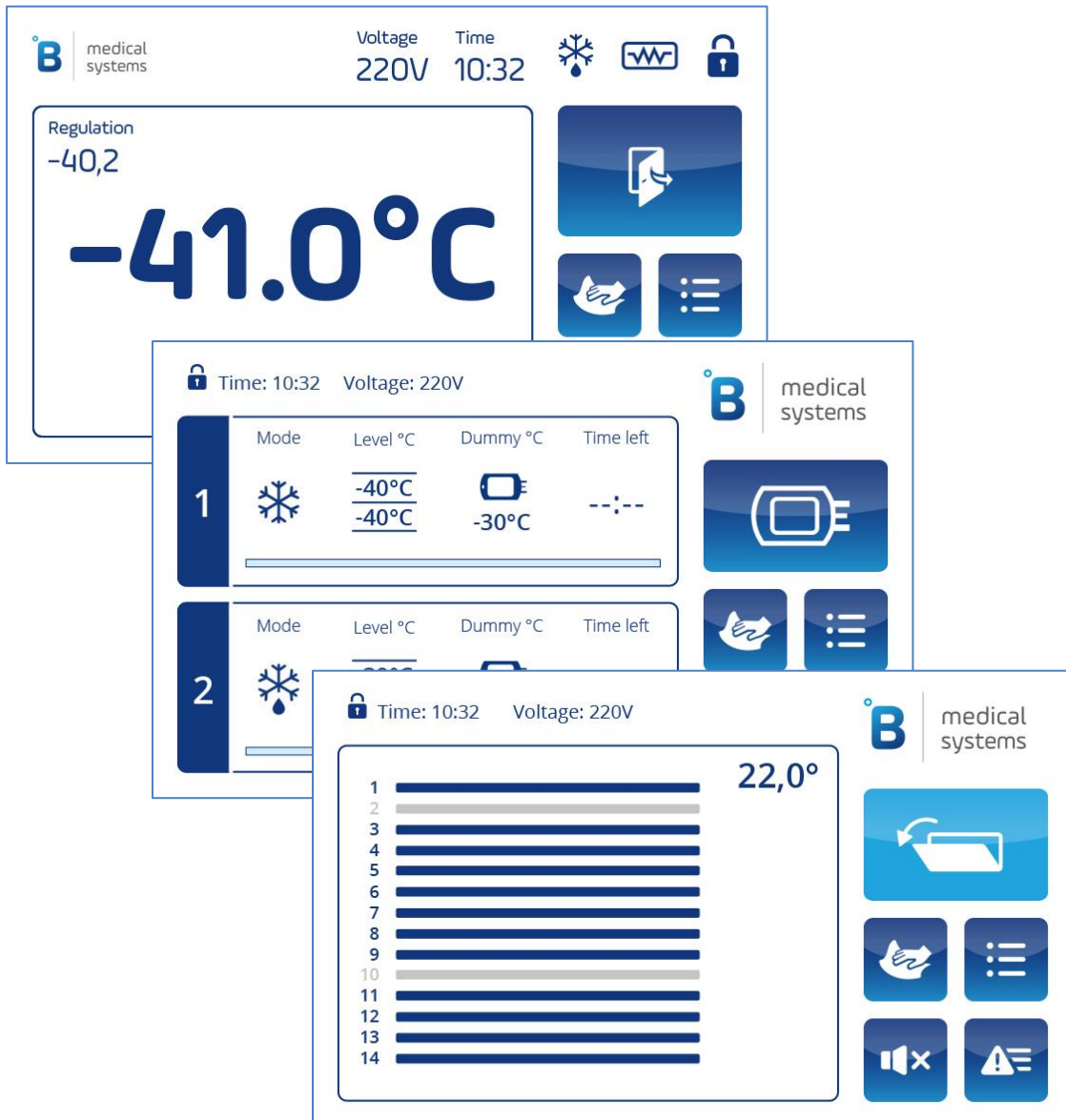




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## User manual Premium HMI (pHMI)



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## 1) Important Information

- Before using the devices, read these operating instructions carefully, including all the information on operation, safety, use and maintenance.
- B Medical Systems does not guarantee any safety, if the appliance is used for any purposes other than the intended use or if any procedures other than those mentioned in this operating manual are used.
- Keep these operating instructions ready at hand and leave them with the unit, so that all users can find out about the functions and safety regulations.
- Contact our sales representative or agent for any problems related to these operating instructions.
- These operating instructions may not be reproduced in any form without the written permission of our company.
- Our company guarantees the product under certain warranty conditions. We shall in no way be responsible for any loss or damage of content.

## 2) Warnings and Cautions

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

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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.

### **Important Note:**

Changes or modifications made to this equipment not expressly approved by B Medical Systems S.à r.l. may void the FCC authorization to operate this equipment.

Antenna: The product is provided with an approved antenna; Use only supplied or approved antenna by B Medical Systems S.à r.l.. Any changes or modifications to the antenna may void the FCC regulatory approvals obtained for the product.

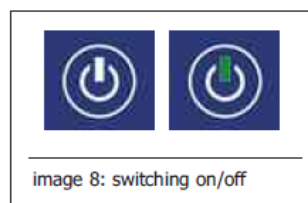


### 3) Electrical connection

The pHMI is powered by the +12V from CAN bus. Connections are already made during installation on end device.

### 4) Switching on/off

- To switch on press the ON/OFF button for 1 second. The green LED will light up.
- To switch off the unit, the following steps must be respected:
  - Press the ON/OFF button for 3 seconds.
  - Enter the password (refer to chapter Login/Logout)
- When a switch off procedure is triggered by the user, the unit will automatically unlock the door before powering down.



### 5) Login

Spontaneous login can be done with a keycard by passing it near the NFC area.



The antenna recognizes and reads all keycards. The read card id is compared to the existing id's on the active user level. If the card is already in the list, a popup window for deletion shall be opened. If the card is not in the list, a popup window for adding will be opened.

### 6) Bluetooth

The pHMI is prepared to communicate logged temperature data via Bluetooth to a mobile application. As the mobile application is not available yet, the Bluetooth is without functionality.

### 7) Technical data

#### NFC:

Operating frequency: 13.56 MHz

Operating modes:

- Reader/Writer mode supporting ISO/IEC 14443A/MIFARE and FeliCa scheme
- Reader/Writer mode supporting ISO/IEC 14443B
- Card Operation mode supporting ISO/IEC 14443A/MIFARE and FeliCa scheme
- NFCIP-1 mode

Data rates: 106, 212 424 kbps based on NFC tag type



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Data access mode:	Read/Write
max output power conducted:	-41.57 dBm
max antenna gain:	2.14 dBi
max output power ERIP:	-39.43 dBm

Bluetooth:

Operating modes:	BDR, EDR
Operating frequency range:	2402 MHz – 2480 MHz
Number of channels:	79
Channel bandwidth:	1 MHz
Data rates:	432.6 kbit/s, 723.2 kbit/s, 2167 kbit/s
Hopping type:	FHSS
Modulation types:	GFSK, DQPSK
max output power conducted:	0.05 dBm
max antenna gain:	0.5 dBi
max output power ERIP:	0.55 dBm

