User manual

American English

Permobil R-net (PJSM)

CE

Introduction

This user manual covers the functions of your Permobil R-net (PJSM) control panel and is intended as an extension to your power wheelchair's user manual.

Please read and follow all instructions and warnings in all manuals supplied with your power wheelchair and its accessories. Incorrect use may both injure the user and damage the wheelchair. In order to reduce these risks, read all documentation supplied carefully, in particular the safety instructions and their warning texts.

It is also of the utmost importance that you devote sufficient time to getting acquainted with the various buttons, functions and steering controls; the different seat adjustment possibilities, etc. of your wheelchair and its accessories before you begin using it.

All information, pictures, illustrations and specifications are based upon the product information available at the time these operating instructions were created. Pictures and illustrations used in these operating instructions are representative examples and not intended to be exact depictions of the relevant parts.

We reserve the right to make changes to the product without prior notice.

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Contents

1　Warnings

	WARNING!
	Environmental conditions

Protect the wheelchair from exposure to any type of moisture, including rain, snow, mud or spray.

If any of the shrouds or the joystick boot has cracks or tears, they must be replaced immediately. Failure to do so may allow moisture to enter the electronics and cause personal injury or property damage, including fire.
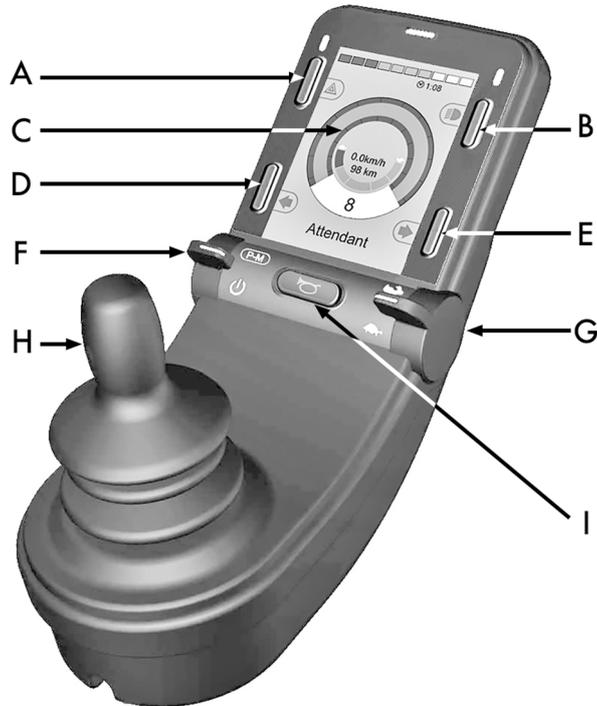
2   Permobil Joystick Module for R-net

A. Hazard lights and seat lift

B. Lights and backrest tilt

C. Screen

D. Left turn signal and leg rest tilt

E. Right turn signal and seat tilt

F. Main power on or off; mode or profile selector

G. Maximum speed paddle, decrease or increase

H. Joystick

I. Horn button

Figure 1. Permobil joystick panel, 2,8" color display.

The overview image on the preceding page shows the basic functions of the control panel. All buttons, toggle switches and the joystick may have additional functionality.

The charging socket is located on the front of the panel
Figure 2 *Charger socket*

Two jack sockets are located on the base of the panel. One is intended for an external on/off switch and the other for an external profile switch. Figure 11 *Jack sockets.*

The wheelchair may also be equipped with an extra seat control panel in addition to the control panel.

2.1   Charger socket

This socket should only be used for charging or locking the
wheelchair. Do not connect any type of programming cable into this
socket. This socket should not be used as a power supply for any
other electrical device. Connection other electrical devices may
damage the control system or affect the wheelchair's EMC
(electromagnetic compatibility) performance.

Figure 2. Charger socket

! NOTICE

Use only the supplied battery charger

The wheelchair's warranty will be voided if any device other than the
battery charger supplied with the wheelchair or the lock key is connected
via the control panel charger socket.

2.2   Buttons and paddle switches

On the control panel there is a total of 5 buttons and 2 paddle
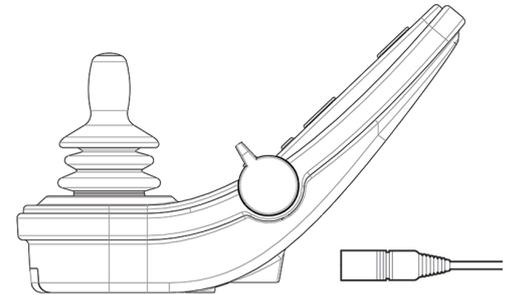switches.

2.2.1   Power, mode and profile paddle

The paddle switch is used to switch the control system on or off.

Push the paddle forward to switch the power on and pull it rearward to switch the power off.

The paddle switch can also be used to scroll through the available profiles and modes. Push the paddle forward to scroll through the available profiles and modes.

Figure 3. Power, mode and profile paddle.

(i) If your panel is equipped with an early version of the toggle switch as shown in figure 4, follow the description below.

Pull the paddle switch rearward to switch the power on or off.

The paddle switch can also be used to scroll through the available profiles and modes. Push the paddle forward to scroll through the available profiles and modes.
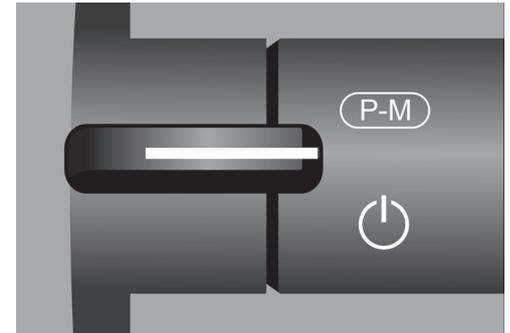

Figure 4. Power, mode and profile paddle switch, early version.

2.2.2 Maximum speed paddle

This paddle decreases or increases the wheelchair's maximum speed. The maximum speed indicator on the display shows the current setting. Push the paddle forward to increase the setting and backwards to decrease the setting.
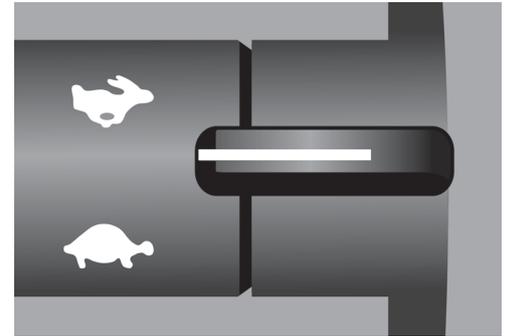
Figure 5. Maximum speed paddle, decrease or increase.

2.2.3 Horn button

The horn will sound while this button is depressed.

Figure 6. Horn button.

2.2.4 Function buttons

Four function buttons are located on the left and right sides of the display. The symbols on the screen show the current function.

2.2.4.1   Hazard lights and seat lift

This button controls the wheelchair hazard lights if your wheelchair is equipped lights, and the seat lift if this function is programmed for your control panel.

The hazard lights are used when the wheelchair is positioned such that it constitutes an obstruction for others. When the hazard lights are on, a symbol on the screen will flash in sync with the wheelchair's hazard lights.

This is how you turn on and off the hazard lights.

1. Press the button to turn on the hazard lights.
2. Press the button again to turn off the hazard lights.

This is how you control the seat lift.

1. Press and hold the button to lift the seat to the preferred position.
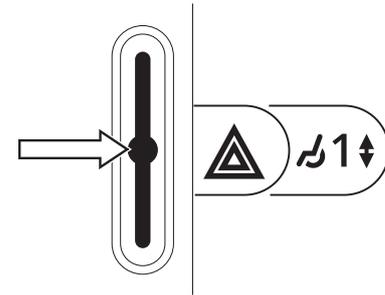2. Press and hold the button again to lower the seat to the preferred position.

Figure 7. Function button and screen symbols for hazard lights and seat lift.

2.2.4.2   Lights and backrest tilt

This button controls the front lights and rear lights if your wheelchair is equipped with lights, and the backrest tilt if this function is programmed for your control panel.

When the lights are on, a symbol on the screen will lit.

This is how you turn on and off the lights.

1. Press the button to turn on the front lights and rear lights.
2. Press the button again to turn off the front lights and rear lights.

This is how you control the backrest tilt.

1. Press and hold the button to tilt the backrest forward to the preferred position.
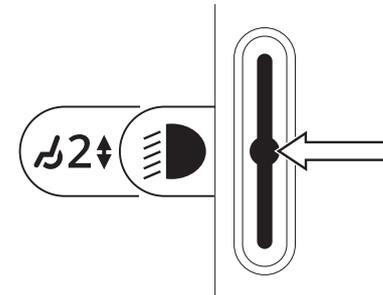2. Press and hold the button again to tilt the backrest rearward to the preferred position.

Figure 8. Function button and screen symbols for lights and backrest tilt.

2.2.4.3   Left turn signal and leg rest tilt

This button controls the left turn signal if your wheelchair is
equipped with lights, and the leg rest tilt if this function is
programmed for your control panel.

When the left turn signal is on, a symbol on the screen will flash in
sync with the wheelchair's left turn signal.

This is how you turn on and off the left turn signal.

1. Press the button to turn on the left turn signal.
2. Press the button again to turn off the left turn signal.

This is how you control the leg rest tilt.

1. Press and hold the button to tilt the leg rest forward to the
    preferred position.
2. Press and hold the button again to tilt the leg rest rearward to the
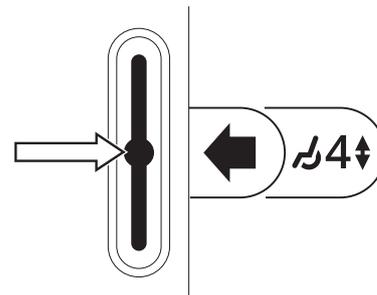   preferred position.

Figure 9. Function button and screen symbols for left turn
signal and leg rest tilt.

2.2.4.4   Right turn signal and seat tilt

This button controls the right turn signal if your wheelchair is equipped with lights, and the seat tilt if this function is programmed for your control panel.

When the right turn signal is on, a symbol on the screen will flash in sync with the wheelchair's right turn signal.

This is how you turn the right turn signal on and off.

1. Press the button to turn on the right turn signal.
2. Press the button again to turn off the right turn signal.

This is how you control the seat tilt.

1. Press and hold the button to tilt the seat forward to the desired position.
2. Press and hold the button again to tilt the seat rearward to the desired position.
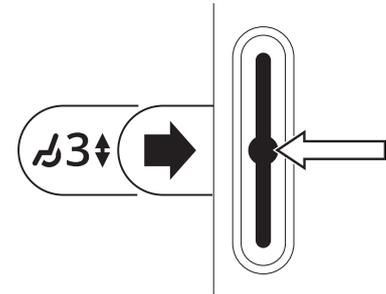
Figure 10. Function button and screen symbols for right turn signal and seat tilt.

2.3   Jack sockets

The external on/off switch jack (A) allows the user to turn the control system on or off using an external device such as a buddy button.

The external profile switch jack (B) allows the user to select profiles using an external device, such as a buddy button. To change the profile while driving, simply press the button.
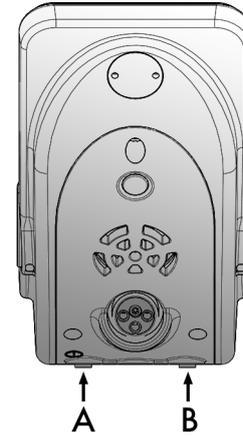
Figure 11. Jack sockets.

2.4   Display

The status of the control system can be understood by observing the display. The control system is on when the display is backlit.

2.4.1   Screen symbols

The R–net drive screen has common components that always
appear, and components that only appear under certain conditions.

A. Speedometer

B. Profile name

C. Battery indicator

D. Clock

E. Maximum speed indicator

F. Current profile

Figure 12. Drive screen when set to profile 8.

2.4.2   Battery indicator

This displays the charge available in the battery and can be used to alert the user of the status of the battery.

- Steady light: everything is in order.
- Flashing slowly: the control system is functioning correctly, but charge the battery as soon as possible.
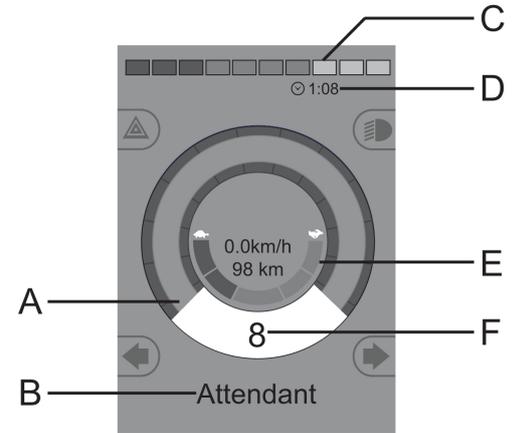- Stepping up: the wheelchair batteries are being charged. The wheelchair cannot be driven until the charger is disconnected and the control system is switched off and on again.

The display shows battery status (from left to right):

Red, Yellow and Green	Fully charged
Red and Yellow	Half charged
Red	Charge the batteries

Figure 13. Battery indicator.

2.4.3   Maximum speed indicator

This displays the current maximum speed setting.

The maximum speed setting is adjusted using the speed paddle.

0.0km/h
98 km

Figure 14. Maximum speed indicator.

2.4.4   Current profile

The profile number describes which profile the control system is currently operating in. The profile text is the name or description of the profile the control system is currently operating in.

Figure 15. Current profile.

2.4.5   In focus

When the control system contains more than one method of direct control, such as a secondary joystick module or a dual attendant module, then the module that has control of the wheelchair will display the 'in focus' symbol.

Figure 16. In focus.

2.4.6   Speed limited

If the speed of the wheelchair is being limited, for example by a raised seat, then this symbol will be displayed. If the wheelchair is being inhibited from driving, then the symbol will flash.

Figure 17. Speed limited.

2.4.7   Restart

When the control system requires a restart, for example after a module re–configuration, this symbol will flash.

Figure 18. Restart required.

2.4.8   Control system temperature

This symbol means that a safety feature has been triggered. This safety feature reduces the power to the motors, and automatically resets when the control system has cooled down. When this symbol occurs, drive slowly or stop the wheelchair. If the control system temperature continues to increase it can reach a level where the control system must cool down, at which point it will not be possible to drive any further.

Figure 19. Control system temperature.

2.4.9   Motor temperature

This symbol means that a safety feature has been triggered. This safety feature reduces the power to the motors, and automatically resets after a certain period of time. When the system is reset, the symbol disappears. When this symbol occurs, drive slowly or stop the wheelchair. Permobil recommends that you drive slowly for a short period after the symbol has disappeared, to prevent unnecessary strain on the wheelchair. If the symbol occurs multiple times and the wheelchair is not driven in any of the conditions mentioned in the chapter Driving restrictions of your wheelchair's user manual, there might be something wrong with the wheelchair. Contact your service technician.

Figure 20. Motor temperature.

2.4.10   Hourglass

This symbol is displayed when the control system is changing between different states. An example would be entering into programming mode. The symbol is animated to show sand falling.

Figure 21. Hourglass.

2.4.11   Emergency stop

If the control system is programmed for latched drive or actuator operation, then an emergency stop switch is usually connected to the external profile switch jack. If the emergency stop switch is operated or disconnected, this symbol will flash.

Figure 22. Emergency stop.

2.4.12   Settings menu

The settings menu permits the user to set the clock, display brightness, background color, etc.

Press and hold the function button for hazard lights to open the settings menu. If the function buttons of your control panel are programmed with seat functions, first press the mode button one or more times until the icon for settings appears on the screen, then press and hold the function button for hazard lights to open the settings menu.

Scroll through the menu by moving the joystick back and forth.

A right joystick deflection will enter a submenu with the related function options.

Exit the settings menu by first selecting Exit at the bottom of the menu and then moving the joystick to the right.

The menu items are described in the following sections.

2.4.12.1   Time

The following section describes submenus related to time.

Figure 23. Settings menu.

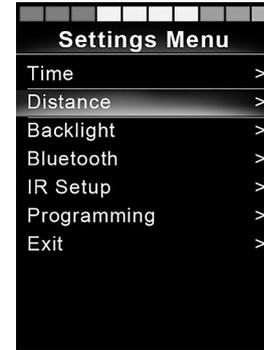|	
Set Time	allows the user to set the current time.
Display Time	this sets the format of the time display or turns it off. The options are 12hr, 24hr or off.

2.4.12.2   Distance

The following section describes submenus related to distance.

Figure 24. Distance measurement.

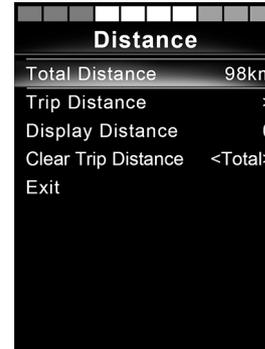|	
Total Distance	this value is stored in the power module. It is related to the total distance driven during the time that the current power module has been installed in the chassis.
Trip Distance	this value is stored in the joystick module; it relates to the total distance driven since the last reset.
Display Distance	sets whether total distance or trip distance appears as the odometer display on the joystick module.
Clear Trip Distance	a right joystick deflection will clear the trip distance value.

2.4.12.3   Backlight

The following section describes submenus related to backlight.

Backlight   this sets the backlight on the screen. It can be set
                        between 0% and 100%.

Auto Backlight   the joystick module contains an ambient light
                        sensor to automatically adjust screen brightness.
                        The programmable options are off or on. Set to
                        on, the display adjusts the screen brightness based
                        on the light sensor reading. Set to off, screen
                        brightness will not change with changes in light
                        intensity.

Backlight Time   this adjusts the period of time the backlight will
                        remain active once no further instructions are
                        received from an input device, it is adjustable
                        between 0 and 240 seconds.

2.4.12.4   Bluetooth

(i) Applies to control panels equipped with integrated Bluetooth.

A right deflection of the joystick will enter a submenu to configure
the Bluetooth mode screen. Refer to the Bluetooth mode chapter
for more details,

2.4.12.5 IR setup

(i) Applies to control panels equipped with integrated IR.

A right deflection of the joystick will enter a submenu for learning
and deleting IR codes. Refer to the IR section for more details, see
page 44.

2.4.12.6   Programming

The following section describes submenus related to programming.

Sleep   sets the time after which the control system will
                             go to sleep if an input device command is not
                             received.

Sounder Volume   sets the volume of the sounder used to indicate
                             button presses.

Horn Volume   sets the volume of the horn.

Start–up Beep   sets whether not the controller emit a short beep
                             when turned on. Available only in later versions
                             of the control panel.

Momentary Screens   sets whether programmed momentary screens are
                             displayed.

Display Speed   sets how the wheelchairs speed is displayed;
                             options are mph, km/h or off.

Displays   sets the format of the digital drive display; options
                             are odometer, speed or both.

Diagnostics   allows the user to read diagnostic information
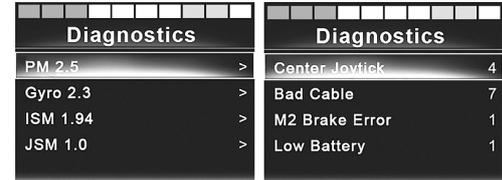   from the control system.

Figure 25. Two samples from the diagnostics screen.

Timers   enables the user to view how many hours the
                         chair has been driven for.

2.4.12.7   Exit

Exits the settings menu.

2.5   Bluetooth mode

ⓘ Applicable only to R-net control panels, 3,5″ or 2,8″ color display,
with Bluetooth integrated in the joystick module.
The joystick modules differs in that the 3,5″ screen version is
equipped with the buttons mode and profile, positioned under the
screen. Joystick modules with 2,8″ screens are more compact and
lack these buttons.

2.5.1   General

When a wheelchair is delivered equipped with a control panel
containing Bluetooth, the Bluetooth functions are pre programmed
to a basic setup. This setup is described below.

The basic setup is prepared for pairing of up to four Bluetooth
devices, two PC mice or Android devices and two iDevices, without
any additional tools. The setup can be reprogrammed using a
programming key and an R–net programmer installed on a
computer. With this equipment it is possible to e.g. rename or
replace text and icons describing a certain device, activate mouse
commands, nudge time, change the cursor speed etc.

2.5.2   Pairing with devices

A device must be set to on from the settings menu before it can be
paired. Follow the description below.

2.5.2.1   Settings menu

Press and hold the function button for hazard lights to open the settings menu, then select Bluetooth. If the function buttons of your control panel are programmed with seat functions, press the mode button one or more times until the icon for settings appears on the screen, press and hold the function button for hazard lights to open the settings menu, then select Bluetooth.

Figure 26. Select Bluetooth to get access the submenu.

The screen now displays the submenu as illustrated.

Choose a device; set it to on with a right deflection by the joystick.

The R–net system must now be switched off and then on again.

The name of each device can be changed by using a computer with an installed R–net programming tool.
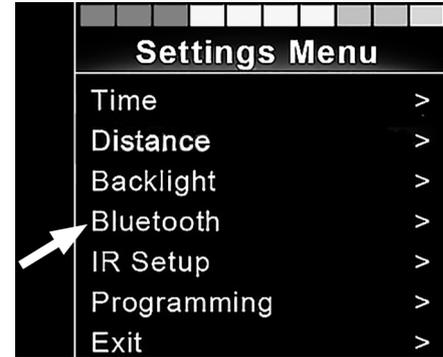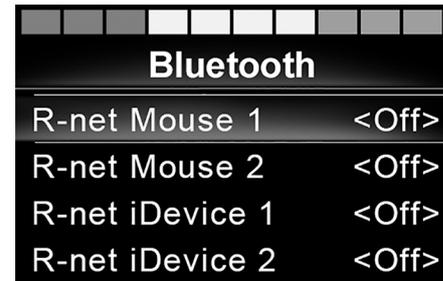

Figure 27. The Bluetooth submenu.

2.5.2.2   Pairing setup

The control panel Bluetooth must then be put into discovery mode by following this sequence description:

- Deflect the joystick in the forward direction and hold until there is a beep. This takes approximately 10 seconds; then release.

- Deflect the joystick in the reverse direction and hold until there is a beep. This takes approximately 10 seconds; then release.

The screen will display a flashing Bluetooth icon above the computer image. This confirms that the control panel Bluetooth is set in discovery mode. It is now discoverable for other Bluetooth devices.

2.5.2.3   Pairing with different devices

Depending on the type of device you are pairing with; a PC, an Android device or an iDevice, you will need to follow a specific procedure depending on the device you want to connect to.

Some procedures are described below.

Figure 28. The arrow points to the flashing Bluetooth icon.

2.5.2.4   Pairing with a PC

The following process should be carried out on a PC:

- Open the window where you can select a Bluetooth device to add to the PC. The name and path will differ slightly for different versions of Windows.

- Enter the password 1234 if prompted.

- Click on R-net Mouse X when it appears in the screen and the connection will be finalized. The R-net mouse will now appear in the list of devices on the PC.

- When an connection is established the Bluetooth icon on the control panel display stops flashing.

2.5.2.5   Pairing with an Android device

The following process should be carried out on the Android device

- Select system settings and set Bluetooth to on.

- Select R-net Mouse X from the list of available devices.

- Enter the password 1234 if prompted.

- R-net Mouse X should now appear as a paired device.

- When an connection is established the Bluetooth icon on the control panel display stops flashing.

2.5.2.6   Pairing with an iDevice

The following process should be carried out on the iDevice.

• Select settings and set Bluetooth to on.

• Select R–net iDevice X from the list of available devices.

• R–net iDevice X should appear as a paired device.

• When an connection is established the Bluetooth icon on the
  control panel display stops flashing.

2.5.2.7   Updating the list of devices

The control panel stores the Bluetooth IDs of up to four devices. To
replace an entry on the list of devices, one of the existing pairings
must be deleted. This process is initiated from the paired device and
will vary depending on the type of device.

Once a device is unpaired, a new device can be added.

2.5.3   Operating Bluetooth devices

This section describes the basic settings of a wheelchair delivered
with a control panel with integrated Bluetooth.

2.5.3.1   Accessing a Bluetooth device

The following section describes how to access one of the paired
Bluetooth devices.

2.5.3.2   To enter Bluetooth mode

ⓘ Joystick module with 2,8" screen is more compact and lacks mode
   and profile buttons.

Press mode button (A) a number of times until Bluetooth mode is
entered, or press and hold function button (B) to enter Bluetooth
mode, M3. If the function buttons of your control panel are
programmed with seat functions, you can only use mode button (A)
to enter Bluetooth mode.

Figure 29. Mode button (A) and function button (B) to
enter Bluetooth mode.

If more than one Bluetooth device is paired and enabled, a screen will appear where a Bluetooth device can be selected for connection and use.

If only one Bluetooth device is enabled it will be shown directly on the screen.

Step between the devices by deflecting the joystick forward or back.

Select the device by right deflection.

Figure 30. The Bluetooth device screen from which paired devices are chosen.

When a Bluetooth device is selected, the screen will show an icon representing the chosen device type.

If only one Bluetooth device is enabled, this screen will appear as soon as Bluetooth mode is activated.
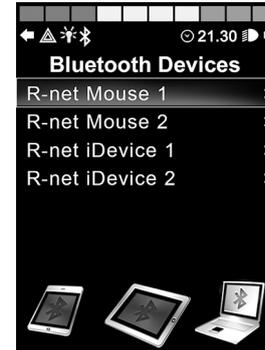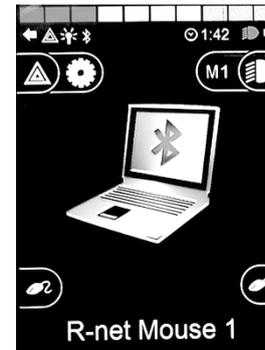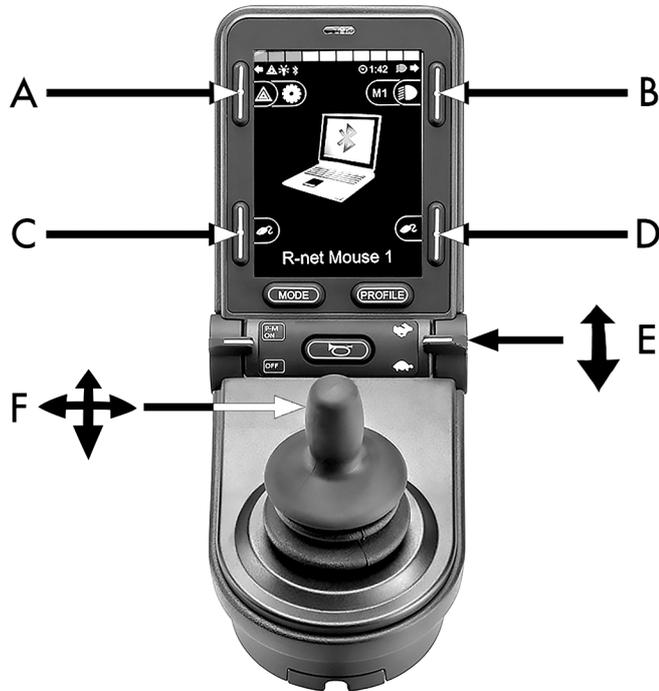

Figure 31. A selected Bluetooth device.

2.5.3.3   Operating buttons in Bluetooth mode

A. Access settings, page 40.

B. Return to drive mode, page 40.

C. Left mouse click, page 41.

D. Right mouse click, page 41.

E. Scroll up or down, page 41.

F. Joystick functions, page 42.

Figure 32. Buttons and other controllers for operating in Bluetooth mode.

Buttons A to D, paddle switch E and joystick F, as shown in the previous overview illustration, have predefined functions when a Bluetooth device is selected in Bluetooth mode. The functions are described below.

2.5.3.4   A – accessing settings

Press and hold button (A) to open the settings menu. For more information about the settings menu, see 2.4.12 *Settings menu*, Page 26.
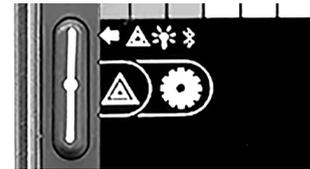
A short press turns the hazard lights on or off.

Figure 33. Function button (A) to open the settings menu from Bluetooth mode.

2.5.3.5   B – return to drive mode

Press and hold button (B) to enter drive mode.

A short press turns the lights on or off.

Figure 34. Function button (B) to enter drive mode from Bluetooth mode.

2.5.3.6   C – left mouse click

Press button to perform a left mouse click.

Figure 35. Left button for left mouse clicks.

2.5.3.7   D – right mouse click

Press button to perform a right mouse click.

Figure 36. Right button for right mouse clicks.

2.5.3.8   E – scroll up or down

Push the paddle switch to scroll up.

Pull the paddle switch to scroll down.

Figure 37. In mode Bluetooth the right paddle switch is used to scroll up or down.

2.5.3.9   F – joystick functions

Move cursor in desired direction by deflecting the joystick.

Nudge forward to scroll up.

Nudge back to scroll down.

Left mouse click; left nudge.

Right mouse click; right nudge.

(i) A nudge is a quick, full deflection; settings can be changed to accommodate your needs using a computer with the programming tool installed.

Figure 38. With the use of Bluetooth the joystick can take control of the mouse functions.

2.5.4   Notes - Bluetooth mode settings changed after delivery

Button, toggle switch or joystick	Function

2.6   IR mode

(i) Applicable only for R-net control panels with integrated IR, 3.5″ or
2.8″ color display with IR.

2.6.1   General

The infrared control, integrated in the joystick module, makes it
possible to replicate commonly used IR devices, such as remote
controls for TV, audio, cable, satellite or environmental controls. IR
codes can either be learned without any tools or loaded by the PC–
based IR configurator software. The programming abilities of the IR
configurator entail more than just loading codes.

This manual describes only the learning method.

The wheelchair is prepared for IR mode but there are no IR codes
stored in the system at delivery.

2.6.2   IR setup

IR setup menu can be accessed via the settings menu; see
2.4.12 *Settings menu*, Page 26.

On entering the IR setup menu, the default appliances will appear.
When an appliance is selected, its commands are shown.

Figure 39. The IR setup screen.

When a command is followed by a check mark it means that it has a
stored IR code. When a command is not checked, its IR code has
not yet been stored.

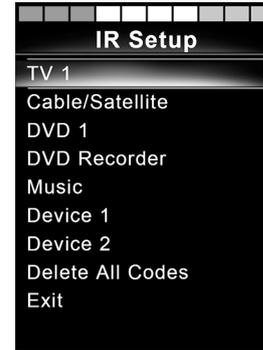IR codes can be stored or deleted as described in the following
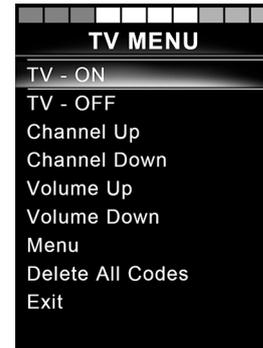sections.

Figure 40. Commands on the TV menu screen.

2.6.3   Learning an IR code

The IR receiver is located above the screen on the control panel, marked with an A in the figure.

When learning a code, the remote control device must be held so that its IR transmitter points towards the IR receiver on the control panel, i.e. the little window marked A in the figure.

Figure 41. The IR receiver location.

2.6.3.1   Learning an IR code procedure

Enter the IR setup menu.

Select an appliance, e.g. TV – (Device 1) as illustrated. "(Device 1)" shows where the equipment's unique name may appear on the screen.
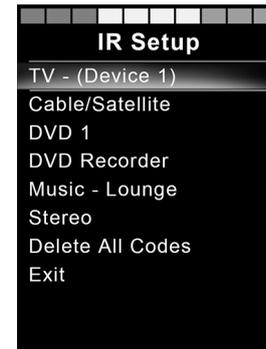

Figure 42. Sample of IR setup.

The commands for the appliance will appear on the screen as shown in figure. Select a command to learn.

In this example; channel up will be selected from the TV menu.

Figure 43. The screen displayed when an appliance has been selected.

Select learn code, by deflecting the joystick right while the command is highlighted.

Figure 44. IR Setup menu, learn code.

Point the TV remote control towards the control panel's IR receiver and press the channel up button twice.

Figure 45. Point the remote control at the IR receiver. Press the button twice.

If the learn code operation has been successfully completed, a green check mark will be displayed on the screen.

Figure 46. Learning operation successful.

If the learn code operation fails, a red cross will be displayed on the screen. Please retry the learn code operation.

Figure 47. Learning operation unsuccessful.

After the code has been learned, scroll down to highlight exit. Deflect the joystick to the left to return to the appliance menu, IR setup.

(i) The first time an IR code is learned, it is necessary to cycle the power by turning the power off at the control panel and on again. If other IR codes have already been learned, it is not necessary to cycle the power.
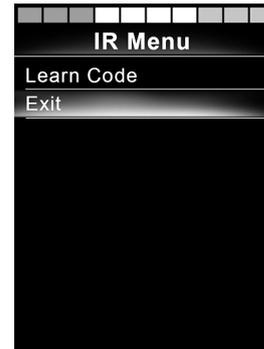

Figure 48. Scroll down to Exit.

2.6.4　Learning sequenced IR codes

Multiple IR codes can be learned for a single command in the IR
setup menu. This enables multiple IR codes to be transmitted
through a single command when in IR mode.

Examples:

1. The on/off function for multiple appliances, the TV and the
   DVD for example, can be learned by a single entry in the IR
   setup menu. The control panel will then transmit the codes for
   the learned command in one burst. In this case, turning the TV
   set and the DVD recorder on or off practically simultaneously.

2. Previously, selecting a TV channel required the user to select the
   individual channel's digits from a list. This could be quite
   inconvenient when trying to select a TV channel with multiple
   digits e.g. Channel 143. Now the individual codes for the
   numbers 1, 4 and 3 can be learned by a single command in the
   IR setup menu. When this command is selected in IR setup
   menu the IR codes are transmitted practically simultaneously.

2.6.4.1   Create a sequence

- Select the command to use as the sequence initiator. In this example, TV – on.
- Select learn code, by deflecting the joystick to the right while the command is highlighted.
- Point the TV remote control at the control panel's IR receiver and press the on/off button twice.
- After each successful learn operation a check momentarily appears on the screen, select learn code again.
- Point the DVD remote control at the control panel's IR receiver and press the on/off button twice.
- After each successfully learned operation, a check momentarily appears on the screen, select learn code again.
- Complete the sequence by highlighting exit and deflecting the joystick to the left.
- Now the TV – on command will have a check mark and three dots beside it, showing a learned sequence.

TV MENU

TV - ON   ✓...
TV - OFF
Channel Up
Channel Down
Volume Up
Volume Down
Menu
Delete All Codes
Exit

Figure 49. A check mark followed by three dots showing a learned sequence.

2.6.5   Enabling and disabling IR codes

IR codes can be enabled or disabled in the IR setup menu. If a code is disabled, it will not transmit and will not appear in IR mode.

To disable an IR code, deflect the speed paddle up or down. A disabled IR code appears with an X against the highlighted command.

To enable an IR code, deflect the speed paddles up or down. An enabled code appears with a check mark against the highlighted command.
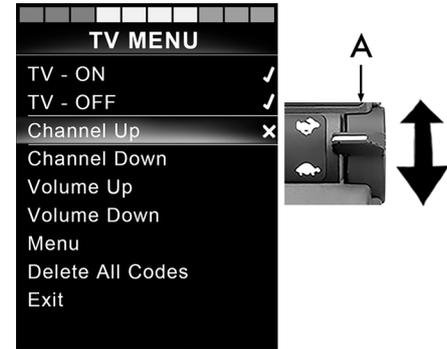

Figure 50. Screen and speed paddle switch marked A.

2.6.6   Deleting IR codes

To delete an IR code for a specific command, highlight the command in the appliance menu and deflect the joystick to the right. Then select the delete code option.

Figure 51. Deleting codes for specific commands.

To delete all IR codes for an appliance, select delete all codes within that appliance's submenu.
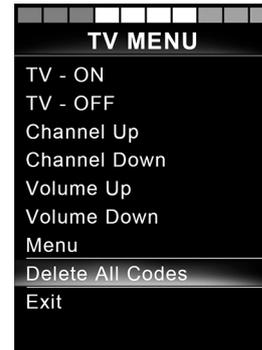
Figure 52. Deleting all codes for a specific appliance.

To delete all IR codes stored in the control panel, select delete all codes within the IR setup menu.

Figure 53. Delete all codes from the IR setup menu.

2.7   Locking and unlocking the control system

2.7.1   Locking

- Switch the control system on and move the paddle backward.
- After 1 second the control system will beep. Now release the paddle.
- Deflect the joystick forward until the control system beeps.
- Deflect the joystick rearward until the control system beeps.
- Release the joystick; there will be a long beep.
- The wheelchair is now locked.
- The wheelchair is switched off.

2.7.2   Unlocking

- If the control system has switched off, move the paddle forward.
- Deflect the joystick forward until the control system beeps.
- Deflect the joystick rearward until the control system beeps.
- Release the joystick; there will be a long beep.
- The wheelchair is now unlocked.

Figure 54. The lock symbol is displayed when the wheelchair is locked.

2.8   Seat functions
2.8.1   Not applicable to all seat models

On some seats, the power functions can be controlled using the
control panel joystick. Some models can memorize three seat
positions. The seat adjustment mechanism stores each memorized
seat position. This makes it easy to retrieve a seat position saved
earlier.

2.8.2   Maneuvering the seat

1. Push the mode paddle switch forward one or more times until a seat function icon appears in the control panel display.

2. Move the joystick to the left or right to select a seat function. The icon for the seat function selected appears in the display.

    The icons shown may vary depending on the seat model and available functions.

3. Move the joystick forward or rearward to activate the function.

! NOTICE
The symbol M

If the symbol M appears together with the seat icon, it means the memory function has been activated. Move the joystick to the left or right to choose a seat function instead.
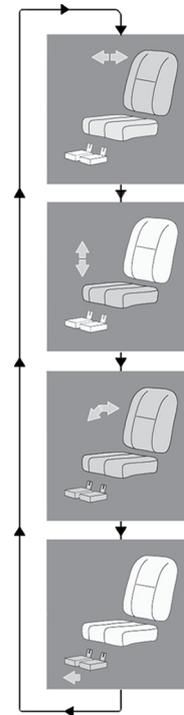

Figure 55. Maneuvering the seat, example of icons that may appear.

2.8.2.1　Return to drive mode

Push the mode paddle switch forward one or more times until a standard display image with speed indicator appears in the control panel display.

Figure 56. Standard display image with speed indicator.

2.8.3   Memory

2.8.3.1   Retrieving a seat position from memory

Some seat control systems can memorize three seat positions. The
seat adjustment mechanism stores each memorized seat position.
This makes it easy to retrieve a seat position saved earlier.

1. Push the mode paddle switch forward one or more times until a
    seat function icon appears in the control panel display.

2. Move the joystick to the left or right to select a memorized
    position (M1, M2 or M3). A seat icon and memory symbol M
    for the memorized position selected are shown in the control
    panel display.

3. Move and hold the joystick forward. The seat adjusts to the
    position stored earlier. For safety reasons, the joystick must be
    held forward until the seat is fully adjusted to the memorized
    position. Once the seat has adjusted to the memorized position,
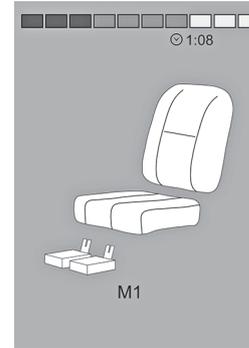   it stops moving.

Figure 57. Memory function activated

!   NOTICE
     ## Releasing the joystick stops seat movement

Release the joystick at any time to stop seat movement.

Return to drive mode

Push the mode paddle switch forward one or more times until a standard display image with speed indicator appears in the control panel display.

Figure 58. Standard display image with speed indicator.

2.8.3.2   Saving a seat position to memory

1. Set the seat's power functions to the preferred position.

2. Activate the seat memory function by pushing the mode paddle switch forward one or more times until a seat icon appears in the control panel display.

3. Move the joystick to the left or right to select a memorized position (M1, M2 or M3). A seat icon and memory symbol M for the selected memorized position are shown in the control panel display.

4. Move the joystick rearward to activate the save function. An arrow will appear next to the memory symbol M.

5. Save the current position by moving the joystick forward and holding it in that position until the arrow next to the memory symbol M disappears.
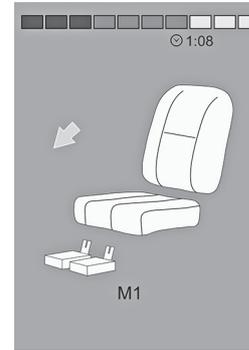

Figure 59. Save function activated.

Return to drive mode

Push the mode paddle switch forward one or more times until a standard display image with speed indicator appears in the control panel display.

Figure 60. Standard display image with speed indicator.

3 ConnectMe
3.1 Important information

! **NOTICE**
System data

ConnectMe can record systems data and, if activated, can transmit some data in certain instances, including GPS location. This information helps, for example, to diagnose wheelchair systems and to continuously improve wheelchair safety. Permobil may access the information and share it with others:

• with the consent of the wheelchair owner or his or her personal representative;
• for safety research or wheelchair diagnosis purpose;
• in response to an official request by law enforcement or other government agency;
• for use in dispute resolution involving Permobil, its affiliates or sales / service organization; and
• as otherwise required or permitted by law.

For additional information about how Permobil may use your data, refer to the privacy notice at https://privacy.permobil.com/

WARNING!

Flight mode

The ConnectMe device contains a radio transmitter. In certain areas radio transmission is not allowed and ConnectMe must be set to flight mode, see 3.2 *Flight mode*. Examples of these types of areas include, but are not limited to:

- Areas with potentially explosive atmospheres such as fueling areas, below decks on boats, fuel or chemical transfer or storage facilities, areas where the air contains chemicals or particles, such as grain, dust, or metal powders.

- Areas where radio silence is requested such as hospitals, clinics or health care facilities in order to prevent possible interference with sensitive medical equipment.

- Airports or inside airplanes where you are instructed to do so by airport or airline staff.

- Blasting areas or in areas posted with notifications requesting "two-way radios" or "electronic devices" to be turned off to avoid interfering with blasting operations.

You are responsible for paying attention to where radio transmission is allowed and also where it is not allowed.

3.2   Flight mode

ConnectMe contains a radio transmitter. In certain areas, radio transmission is not allowed and ConnectMe must be set to flight mode.

3.2.1   Activating flight mode

1. Turn the power wheelchair on.

2. Go into seat mode by using the mode button on the joystick or OMNI display. If the control panel does not have a mode button use the left paddle switch for mode selection. A switch plugged into the 1/8" monojack port of the joystick or OMNI display can also be used for mode selection.

Figure 61. Various ways to access modes.

3. If the control panel is an OMNI programmed for switched driver controls continue from step 6.
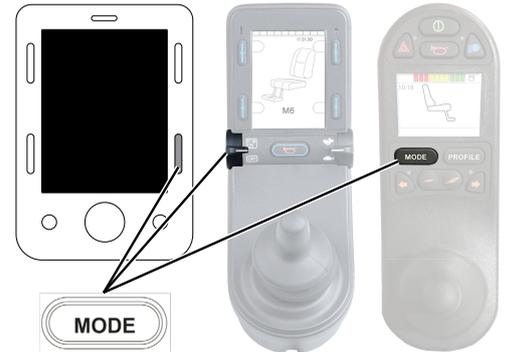
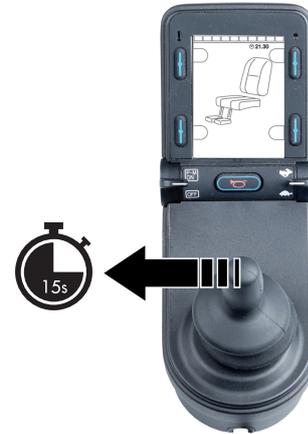**4.** Push and hold the input device left for 15 seconds. A beep will sound.

Figure 62. Push and hold left for 15 seconds.

5. The message "Flight Mode ON" is shown on the display and the ConnectMe's transmitting modem is off. The message will continue to show on the display as long as the flight mode is active. However, the wheelchair will work as normal.

Figure 63. Flight mode is on.

6. Continue from here for an OMNI programmed for switched driver controls. Scroll through seat menus until M6 appears and the chair image is shown with yellow arrows.

7. Push and hold the input device forward, or give and hold an
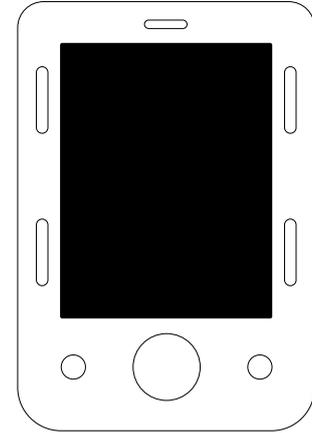equivalent command, for 5 seconds.

Figure 64. Give and hold a forward command for 5
seconds.

8. The yellow arrows will disappear and the message "Flight Mode ON" is shown on the display and the ConnectMe's transmitting modem is off. The message will continue to show on the display as long as the flight mode is active. However, the wheelchair will work as normal.

Figure 65. Flight mode is on.

3.2.2   Deactivating flight mode

1. Turn the power wheelchair on.

2. Go into seat mode by using the mode button on the joystick or OMNI display. If the control panel does not have a mode button use the left paddle switch for mode selection. A switch plugged into the 1/8" monojack port of the joystick or OMNI display can also be used for mode selection.
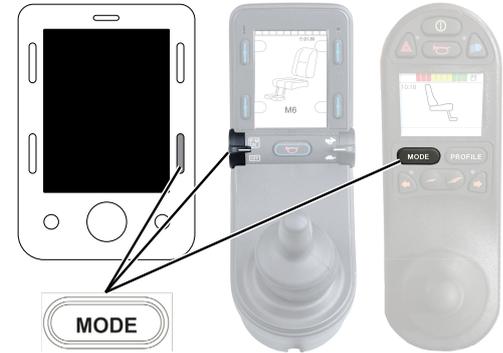

Figure 66. Various ways to access modes.

3. If the control panel is an OMNI programmed for switched driver controls continue from step 6.

4. Push and hold the input device left for 15 seconds. A beep will sound.

Figure 67. Push and hold left for 15 seconds.

5. The message "Flight Mode ON" will disappear indicating that
the flight mode is off. ConnectMe is now fully operational again.

Figure 68. Flight mode is off.

6. Continue from here for an OMNI programmed for switched
driver controls. Scroll through seat menus until M6 appears.

7. Push and hold the input device forward, or give and hold an equivalent command, for 5 seconds. Yellow arrows will appear, indicating that the ConnectMe's transmitting modem is back on and that the flight mode is off.
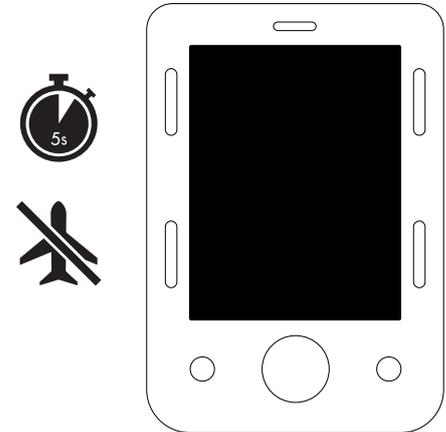

Figure 69. Give and hold a forward command for 5 seconds. Flight mode is off.

3.3   Turning off ConnectMe completely

ConnectMe is powered as long as the battery in the wheelchair is connected to its electronics. To completely turn off ConnectMe, the main fuse must be set in its "off" state.

3.4 Federal Communications Commission (FCC) statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC caution: Any changes or modifications not expressly approved by the party responsible for compliance would void the user's authority to operate this equipment.

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.
2. This device must accept any interference received, including interference that may cause undesired operation.

3.4.1   Radiation Exposure statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance.

To maintain compliance with FCC RF exposure compliance requirements, please follow operation instruction as documented in this guide. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter, except the transmitter built-in with this device.

3.5 Industry Canada statement

ConnectMe complies with the license–exempt Radio Standards Specifications (RSSs) of Innovation, Science and Economic Development Canada (ISED). ISED is formerly known as Industry Canada. Operation is subject to the following two conditions:

1. This device may not cause interference; and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

3.6 Market approval

Certifications	
Bluetooth:	Declared a Bluetooth smart product

3.7   Product approval

ConnectMe fulfills the requirements of the following standards:		
	EN 14971 EN 60601-1 + A1 EN 300 328 EN 301 489-1 EN 301 489-17 EN 301 489-52 EN 301 511 EN 301 908-1	EN 303 413 EN 50665 EN 62311 ISO 7176-9 ISO 7176-14 ISO 7176-21 TS 134 124
FCC	FCC 47 CFR Part 15 B FCC 47 CFR Part 15 C (15.247) CFR47 §1.1310 §2.1091 KDB 447498 D01	See the back of the device for the specific FCC IDs
ISED (Industry Canada)	RSS-Gen RSS-247 RSS-102	See the back of the device for the specific IC IDs

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