



## permobil SDMX2+ SmartDrive MX2+ with Pushtracker User Manual

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# permobil

SmartDrive MX2+ | PushTracker E2  
User's Manual



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## Introduction


### Intended Use of SmartDrive MX2+ App

The SmartDrive MX2+ software application (app) is intended to be used on the PushTracker E2 (TicWatch E2) to operate the SmartDrive Wheelchair Power Assist device. Refer to the labeling and documentation of other components or products for their intended use, instruction, wireless, EMI, and all other specifications/information.



### Warnings and Safety Precautions

All warnings and safety precautions issued by one's wheelchair manufacturer must be heeded in addition to those stated in this and any other provided manuals/instructions/guides, including that provided within the SmartDrive

MX2+ app. Failure to do so could result in serious injury or death. 



Use of the SmartDrive MX2+ app or the SmartDrive by anyone who has not received proper instruction from this manual, the SmartDrive User's Manual, and any other provided manuals/instructions/guides may result in serious injury or death.

Use of the SmartDrive MX2+ app is to be ONLY on the PushTracker E2 (TicWatch E2) as made available by Permobil [SmartDrive] / Max Mobility.

Always inspect your PushTracker E2 for missing parts/damage prior to each use. Make sure your PushTracker E2 is charged before use.

When crossing major roads, intersections, railway crossings or highways as well as when you drive steep, long slopes you should always consider having somebody accompany you in the interest of your safety.

The PushTracker E2 should ONLY be worn by the user sitting in the wheelchair with the SmartDrive attached.

Always turn OFF the power assist [via SmartDrive MX2+ app] when parked to prevent accidental activation.

Always turn OFF the power assist [via the SmartDrive MX2+ app] before taking the PushTracker E2 off of your wrist.

Tapping force does not need to be excessive or "hard". Gentle, stiff wrist taps at a reasonable speed [i.e. half (0.5) second between taps] are sufficient. Refer to the SmartDrive User's Manual for complete instruction.

Always use caution when transferring in or out of the wheelchair. Every precaution should be taken to reduce the transfer distance and be certain the wheel locks are engaged to prevent the wheels from moving. Also always make sure the power assist is OFF [via the SmartDrive MX2+ app] when transferring to and from your chair.

The PushTracker E2 has passed industry climate testing and is considered swim-ready [up to 50 m]. Refer to the other provided manuals/instructions/guides for complete detail regarding its water resistance performance.

Ensure your device is running the latest versions.

Access to the Google Play Store to install the SmartDrive MX2+ [and any other app] on the PushTracker E2 is restricted. Do not uninstall or remove any apps/software and refer to the Troubleshooting section(s) for more information if done accidentally or against this instruction.

## NOTES:

Access to the Google Play Store to install the SmartDrive MX2+ [and any other app] on the PushTracker E2 is restricted. Separate policies, terms, and conditions apply if access is gained against this instruction.

Figures and diagrams in this manual may vary slightly from your device. All product [including components], requirements, policies, terms, and conditions, including the contents of this and any other provided manual/instruction/guide, are subject to change without prior notice. For current product instruction and information refer to the official website.

An electronic version of this User's Manual along with informational videos are available on our website [[www.permobilsmartdrive.com](http://www.permobilsmartdrive.com)] for people with visual, reading, or cognitive disabilities.

The Serial Number of your PushTracker E2 can be found in the Settings app.

It is recommended that you save this User's Manual and record the Serial number below for reference.

**Device Serial Number:\_\_\_\_\_**

## **Electromagnetic Interference (EMI)**

Refer to the SmartDrive User's Manual for EMI specifications.

### **Bluetooth Wireless Communication**

Bluetooth wireless communication [2.4 GHz frequency band] is used by the PushTracker E2 to communicate to the SmartDrive when to activate/deactivate the power assist, send and receive signals from a smartphone, etc. The PushTracker E2 must be within 25 ft (8 meters) of the SmartDrive / smartphone to connect and communicate. The maximum output power of this technology is 10 mW, and the operation of this device in close proximity to other wireless devices [i.e. electromagnetic security systems, Bluetooth headsets, etc.] could cause the device to lose connection. Power assist is always deactivated whenever the motor is driving and there is a loss of connection; the SmartDrive will beep and PushTracker E2 will also give an indication when this happens. Worst-case coexistence testing was performed on the device to ensure its safety and effectiveness. Please contact Permobil [SmartDrive] / Max Mobility immediately for troubleshooting if continuous connection issues are experienced with the device.

## **Using Your PushTracker E2**

### **Attaching Your PushTracker E2**

The PushTracker E2 is designed to comfortably and securely attach to the top part of wrists of all sizes. It has an embedded accelerometer to recognize when you push, when you want to activate the power assist, and also when you tap your hand against the handrail to deactivate the power assist. Additionally, it is equipped with an AMOLED screen and vibration motor to indicate different information, states, and activations/deactivations that occur during everyday use.

The band on the PushTracker E2 is designed for most users; but if you have difficulty securing the buckle/clasp, it doesn't fit right, or you wish to have one of a different color/material, the band can be easily replaced with essentially any 0.87 in (22 mm) wide off-the-shelf watch band of your choosing.



It is recommended that your PushTracker be worn snugly on your wrist to get the most reliable recognition of your hand movement for SmartDrive operation, propulsion activity tracking, etc. The ability to operate/maneuver the wheelchair can be affected if the PushTracker, watches, jewelry, etc. are worn loosely or positioned such that they can become loose and interfere with handrail operation.

### **Initial Set-Up**

After powering on, follow the prompts closely on the PushTracker E2. If any serious difficulties are experienced during set-up, go to the Permobil [SmartDrive] / Max Mobility website for more information and support.

Manual setting of the time, time zone, and preferred format is required, and this is done in the separate Settings app. After opening that app, enter the System menu to then access the "Date & time" submenu. To manually set these, toggle OFF the "Automatic" options then configure each to the correct and/or preferred values.

Upon successful completion, open the SmartDrive MX2+ app on the PushTracker E2, either from the app list or from the button on the selectable SmartDrive MX2+ watch face.



SmartDrive MX2+



### SmartDrive Pairing

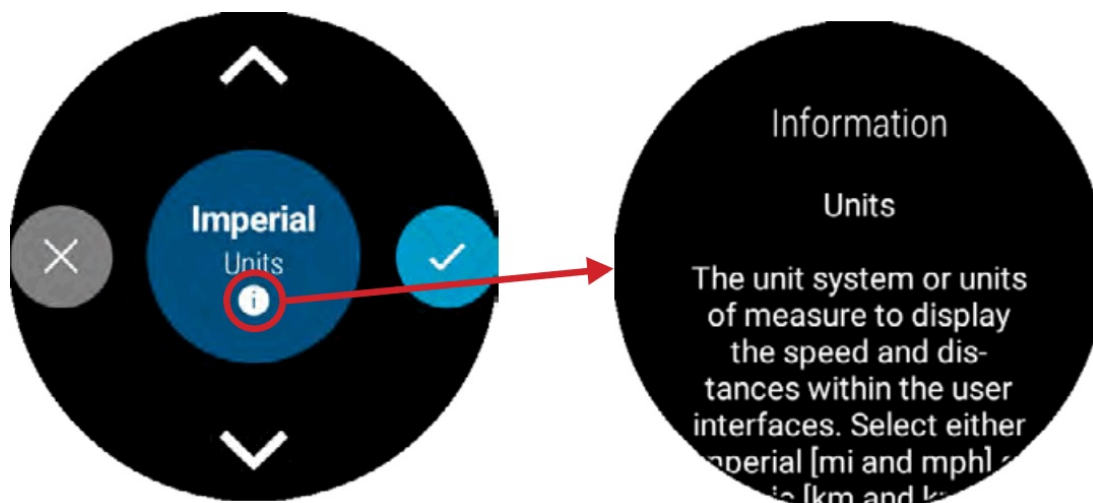
Initial pairing of the PushTracker E2 to a SmartDrive is required, and this is done in the SmartDrive MX2+ app. If the SmartDrive MX2+ app has not been previously paired to a SmartDrive, turning power assist ON will initiate the pairing. If the SmartDrive MX2+ app has been previously paired to a SmartDrive, pairing can be done in the Settings menu on the app.

### Power Assist Activated

After successful pairing, the power assist is turned ON and the SmartDrive MX2+ app is connected to the SmartDrive, the Indication will flash blue. When the SmartDrive motor is driving, the Indication will be solid blue. The Indication will flash red when the SmartDrive MX2+ App is trying to connect or has lost wireless connection to the SmartDrive. Whenever there is a change of state to the SmartDrive, you will feel the vibration as an additional indication from your PushTracker E2.

When the power assist is ON and the SmartDrive motor is driving, the SmartDrive MX2+ app will display your current speed. The Indication will light up with various colors to notify you of the SmartDrive's current state.

Additional detail/information that is helpful in explaining the different features of the app and the SmartDrive is provided throughout the SmartDrive MX2+ app [by clicking (i)]. Refer to the SmartDrive User's Manual for its operation information and instruction.



### Companion App

#### PushTracker App

For the best experience with your SmartDrive and PushTracker E2, use the PushTracker app on your PushTracker E2. This will allow you to track your propulsion activity progress and more.



**PushTracker**

## Maintenance

### Inspection

Always inspect the PushTracker E2 for missing parts/damage prior to each use. Cease use and contact Permobil [SmartDrive] / Max Mobility or your mobility equipment dealer if you notice any of the following:



- Broken or cracked plastic
- Broken buckle or ripped bands
- Damaged display

### Updates and Other Maintenance

Check regularly to ensure your device is running the latest versions, as features are added and improvements are made.

## Troubleshooting

Contact Permobil [SmartDrive] / Max Mobility or your mobility equipment dealer for any other issues that you experience with the device or app. It is strongly recommended to update the versions on your device to the latest version prior to any troubleshooting as your issue may have been resolved in later releases.

	<b>Do not throw away the PushTracker E2. Please properly dispose of the battery by recycling it at the end of its life or send it back to Permobil [SmartDrive] / Max Mobility.</b>	
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## Warranty

Permobil [SmartDrive] / Max Mobility offers a 1-year warranty against manufacturing defects. Permobil [SmartDrive] / Max Mobility's obligation under this warranty shall be limited to repairing or providing replacement of part(s), which are found to be defective. Any part(s) of the system replaced by us at our discretion shall be with a functionally operative part.

This warranty may be voided if 1) the product is not used according to instructions given in this instruction manual, 2) defects were caused by improper use as determined by the company personnel, 3) modification or alteration of any nature is made in the electrical circuitry or physical construction, or 4) defects are due to cause beyond control like lightening, abnormal voltage or while in transit at the purchaser's place of business.

Manufacturer's Contact Information


## European Commission (EC) Authorized Representative



**Advena Ltd.**

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Swatar BKR 4013  
Malta

## Documents / Resources

	<p><a href="#">permobil SDMX2+ SmartDrive MX2+ with Pushtracker</a> [pdf] User Manual SDMX2, PushTracker E2, SmartDrive MX2 with Pushtracker</p>
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## References

- [Permobil SmartDrive - Make your everyday life greater](#)

Manuals+.