

Hermes

GEN 3

Hardware Installation Manual

Latest changes: 18.08.2023

Introduction

The Hermes Gen3 is a design based on a 3-wire bus for power and data which is built into an plastic rail. Rail displays are using mechanical contact to connect to the bus.

The Rail Controller includes a radio component to receive and send wireless transmissions to the Access Point. The radio is based on Bluetooth Low Energy (Bluetooth LE) technology and is operating in the 2.4 GHz ISM band. The protocol implementation is called "RAN2.0".

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Components

- Rail - plastic rail + 3-wire bus
- Rail Controller – “bridge” between radio and 3-wire bus of the rail
- Battery pack – non-rechargeable
- Rail Displays – E-ink displays
- Bluetooth LE Access Point – transmitter device

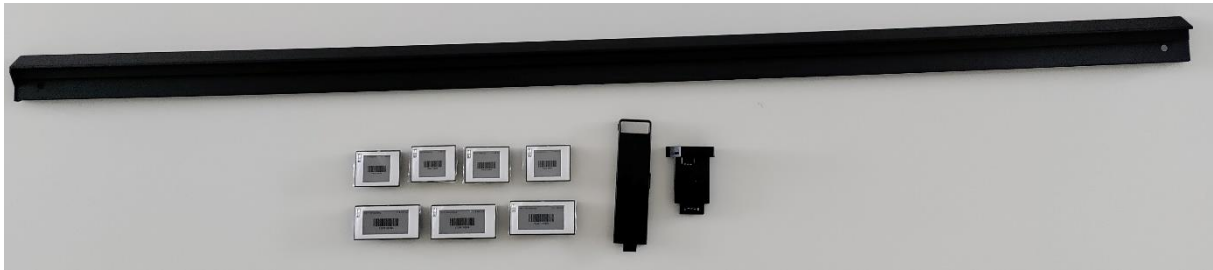


Figure 1 – Rail, Rail Controller, Battery Pack, Rail Displays



Figure 2 - Rail Displays



Figure 3 - Rail Controller & Battery Pack



Figure 4 – Bluetooth LE Access Point

Hardware Setup

1) Plugging Rail Controller into Rail



Figure 5 - Plug Rail Controller into Rail



Figure 6 - Plugged Rail with Rail Controller

2) Supplying Rail with power (plugging Battery Pack)



Figure 7 - Rail with inserted Rail Controller and Battery Pack (make sure on battery inserting that the battery is in the rail guide)



Figure 8 - Rail with inserted Rail Controller and plugged Battery Pack



Figure 9 - After connecting the Battery Pack, the LED of the Rail Controller flashes 3x times in green colour (subject to change) during boot process

3) Plugging Rail Displays into the Rail



Figure 10 - Plugging Rail Displays into Rail

Safe handling of lithium batteries

- LiMnO₂ batteries had passed the test UN 38.3.
- Do not allow undiluted product or large quantities of it to reach ground water course or sewage system.
- Auto-ignition temperature 130°C
- Received CB test reports for used batteries and battery pack itself.

Integrated battery overcharge / discharge protection circuits

WARNING:

Battery may explode or catch fire if misused.

Do not disassemble, incinerate, or expose to high temperature above 212°F (100°C).

Keep away from children.

Read QR-Code-content for further use.



Certification



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.

CAUTION TO USERS

Changes or modifications not expressly approved by the party responsible for compliance could avoid the user's authority to operate the equipment.

FCC rules apply to the following products: RC3 (HRC3-BT01-A)



This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- 1) L'appareil ne doit pas produire de brouillage;
- 2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

IC standards apply to the following products: RC3 (HRC3-BT01-A)