



Halo R4010 EP (Endpoint) User Manual



PB00031 Rev A
Halo R4010 Endpoint User Manual

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English

Halo R4010 is a sensing element including a magnetic sensor, temperature sensor, and tri-axial vibration sensor, functioning as an integral part of the Halo continuous monitoring, analytics, and diagnostics system. Halo Endpoint is manufactured by Augury Systems Ltd.

Date and location of manufacture.

The serial number on the device contains the date and location of the manufacturer.

Installation

The Halo EP can only be installed by certified Augury Halo installers according to the Augury Halo EP installation instructions.

Country of Origin

See the label on the product for the country of origin.

Device Operation

The Halo EP can only be operated as part of a complete Augury Halo system.

Manufacturers contact information.

Augury Systems Ltd.
39 Haatzmaut street,
Israel.

Max. ambient operating temperatures

-40°C~+85°C
(-40°F~+185°F)

Packaging

The Halo EP kit package must arrive sealed and include all screws and parts for installation.

Operation Frequency

BLE 2402-2480 MHz (as part of the BLE protocol with a full frequency span of 2400 - 2483.5 MHz)
NFC 13.56 MHz
Maximum E.I.R.P: 8 dB

Transportation IATA

(State and operate variations can apply) UN 3091 Lithium metal batteries contained in equipment.

UN3091 Packing Instruction for Passenger or Cargo Aircraft: PI970 section II

Bluetooth Low Energy (BLE)

FCC ID: 2A3XG-R4010
IC number:28013-R4010

Sealing IP66/IP68/IP69

Battery

2 Coin manganese dioxide lithium batteries pack (LiMNO₂) or 2 2/3AA manganese dioxide lithium battery pack (LiMNO₂)

**Dimensions (L x W x H)
Endpoint:**

60mm x 60mm x 52 mm

10 units package

325mm x 121.5mm x 65mm

Single unit package

64mm x 64mm x 66mm

Weight 160 gr.

Equipment Malfunction

Any Halo system malfunction must be communicated to Augury Systems Ltd. or its authorized distributor. System maintenance can only be performed by certified Augury Halo technicians.

Storage

Store the device in a location with an ambient temperature of -40°C~+30°C

(-40°F~+86°F)

15%-50%

Relative Humidity

Device Disposal

Dispose of a damaged Halo EP device according to your local disposal regulations for low-voltage electronic devices.



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:

a) Reorient or relocate the receiving antenna.

b) Increase the separation between the equipment and receiver.

c) Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.

d) Consult the dealer or an experienced radio/TV technician.

CAN ICES-3 (B) / NMB-3 (B)

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de classe B est conforme à la norme canadienne ICES-003. **FCC**

Warning (Modification statement) Augury has not approved any changes or modifications to this device by the user. Any changes or modifications could void the user's authority to operate the equipment.

ISED Warning

(Modification statement)
Augury n'approuve aucune modification apportée à l'appareil par l'utilisateur, quelle qu'en soit la nature. Tout changement ou modification peuvent annuler le droit d'utilisation de

l'appareil par l'utilisateur, including interference

RF Exposure

This device is only authorized for use in a mobile application. At least 20 cm of separation distance between the Halo R4010 EP device and the user's body must be maintained at all times.

La distance entre l'utilisateur et le produit ne devrait pas être inférieure à 20 cm.

Interference statement

(if it is not placed in the device) This device complies with Part 15 of the FCC Rules and Industry Canada license-exempt RSS standard(s).

Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference,

that may cause undesired operation of the device. Le présent appareil est conforme aux CNR d'Industrie 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, et

(2) l'utilisateur de l'appareil doit accepter tout

brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Wireless notice

This device complies with FCC/ISED radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the ISED radio

frequency

(RF) Exposure rules.

This transmitter must not be colocated or operating in conjunction with any other antenna or transmitter.

Le présent appareil est conforme à l'exposition aux radiations FCC / ISED définies pour un environnement non contrôlé et répond aux directives d'exposition de la fréquence de la FCC radiofréquence (RF) et

低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

NCC Warning Statement:

取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

RSS-102 de la fréquence
radio (RF) ISCED
règles d'exposition.
L'émetteur ne doit pas
être localisé en fonction
de la puissance de l'émission
à l'antenne.
ou autre émetteur.

CAUTION: RISK OF
EXPLOSION IF BATTERY
IS REPLACED BY AN
INCORRECT TYPE.
DISPOSE OF USED
BATTERIES ACCORDING
TO THE INSTRUCTIONS.



เครื่องวิทยุคมนาคมนี้ ได้รับยกเว้น ไม่ต้องได้รับ
ใบอนุญาตให้มี ใช้ซึ่งเครื่องวิทยุคมนาคม
หรือตั้งสถานีวิทยุคมนาคมตามประกาศ กสทช.
เรื่อง เครื่องวิทยุคมนาคม และสถานีวิทยุ
คมนาคมที่ได้รับยกเว้นไม่ต้องได้รับใบอนุญาต
วิทยุคมนาคม ตามพระราชบัญญัติวิทยุ
คมนาคม พ.ศ. 2498



nab. | โทรคมนาคม
กำกับดูแลการประกอบ
Call Center 1200 (ฟรีค่าโทร)

UKCA Statement:

Satisfies all the technical
regulations applicable to
the product within the
scope \

of UK Radio Equipment
Regulations (SI
2017/1206); UK
Electrical Equipment
(Safety) Regulations (SI
2016/1101); and UK
Electromagnetic
Compatibility
Regulations (SI
2016/1091).

UK
CA