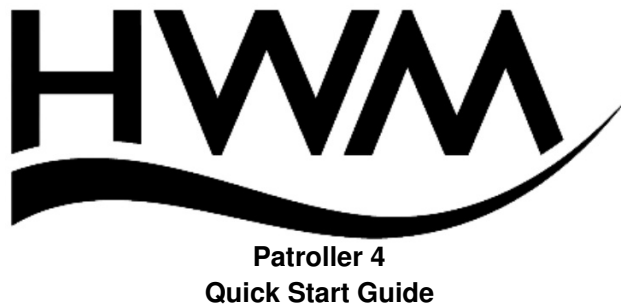




## HWM Global Patroller 4 User Guide

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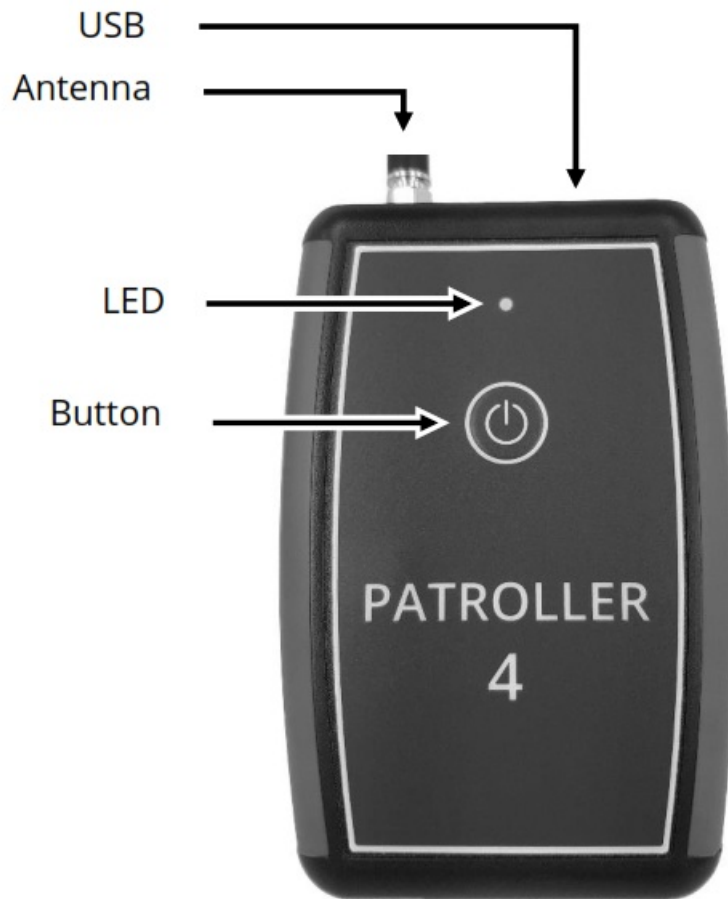
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### Safety Information

This document applies to the following family of devices:

- PAT4 / \* / \* / \*



## Introduction:

This guide covers most basic operations including connections and commissioning.

For more details, refer to [www.hwmglobal.com](http://www.hwmglobal.com)

The Patroller 4 is an interface that is required for setup and configuration of various HWM devices. Please refer to your main product guide for more details.

### Contents:

Patroller 4, USB cable, antenna (various options), car adaptor (optional), mains adaptor (optional).

**Installation Instructions:** MAN-154-0002-E

1. Attach antenna. Check safety section for antenna position and tightening guidelines. For maximum transmission range the antenna should point upward (vertical polarization) and should be kept clear of obstructions, particularly metallic surfaces.
2. Do not expose the Patroller 4 to moisture.

## Use Instructions:

### Switch unit on/off:

1. Turn unit "ON": Press button. Red LED indicates unit off. Hold button for 2 seconds until green.
2. Turn unit "OFF": Press button. Green LED indicates unit on. Hold button for 2 seconds until red.
3. Short press indicates status. Red = off, Green = ON.
4. Unit will automatically power off if not used for 30 minutes.

Connecting to HWM application:

5. If using PC application, connect to PC via USB cable.

6. If using a mobile phone app, connect with the phone using Bluetooth by following the instructions in the app guide.

Battery operation – LED meaning:

7. LED flashes red every 5 seconds: No devices detected.
8. LED flashes green when compatible HWM devices are in radio range and transmit a message.
9. LED flash is green when the battery is OK. LED flash is red when the battery is low; Charge the unit.

Charging operation – LED meaning:

10. LED flashes red twice, every 5 seconds: Battery very low. Radio functions disabled.
11. LED red: Charging.

LED green: Charging complete.


LED flashes when compatible HWM devices are in radio range and transmit a message.

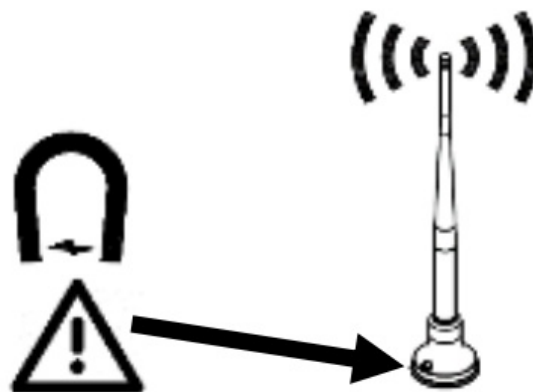
Unit always functions when powered by cable, except (see 10).

### Charging Instructions:

1. Connect USB cable between the unit and a powered USB connector (Car adaptor or mains adaptor, etc).
2. LED displays red until fully charged, then green.

### SAFETY

- Carefully read the information in this document and on the packaging before using the product. Retain all documentation for future reference.
-  This equipment uses a high strength magnet and should not be carried by or be placed in the proximity of anyone with a heart pacemaker. This magnet can permanently corrupt magnetic storage media such as floppy discs, hard discs and tapes etc... It can also damage TV and PC monitor screens and some watches.



- Contains a Lithium battery. Fire, explosion and severe burn hazard. Do not crush, disassemble, heat above 100°C, incinerate, or expose contents to water.
- CHOKING HAZARD – Contains small parts. Keep out of the reach of small children.
- Designed for use in vehicle or indoors only. Protect from water. Water ingress may cause damage to equipment, including risk of explosion.
- Do not disassemble or modify the equipment.


### Use and Handling

- The equipment contains sensitive parts that can be damaged by incorrect handling. Do not throw or drop the

equipment or subject it to mechanical shock. When transporting in a vehicle, ensure the equipment is secured and adequately cushioned, so it cannot fall and so that no damage can occur.

- No user-serviceable parts inside. The equipment must only be serviced or disassembled by the manufacturer or its authorised repair centre.
- The equipment is powered by an internal battery which may present a risk of fire or chemical burn if the equipment is mistreated. Do not disassemble, heat above 100°C, or incinerate.
- Normal operating temperature: -20°C to +60°C. Do not expose to direct sunlight for prolonged periods. Do not mount on apparatus that can exceed this temperature range.
- The equipment may be recharged using a USB cable. Temperature limits during charging: 0°C to 40°C.
- The antenna must be attached to the unit before use. Align the antenna connector and rotate clockwise until it is fingertip tight. Do not over-tighten.
- Handling the equipment using the antenna or antenna cable can cause permanent damage and is not covered by warranty.
- The equipment can become damaged by applying heavy loads or forces to it.
- The equipment may be cleaned by use of a soft cloth lightly moistened with a mild cleaning fluid (e.g. a diluted domestic dishwashing liquid). Dry immediately after cleaning using a dry soft cloth. Do not allow water to enter the connector during cleaning. When the connectors are not in use, keep the inside of the connectors clean. Do not allow liquid, moisture, or small particles to enter the equipment or connector.

### **Radiation Exposure Statement**

- This equipment contains a radio transmitter and receiver. Use of antennas and accessories not authorised by HWM may void the compliance of the product and may result in RF exposures beyond the safety limits established for this equipment.
-  The equipment should be fixed (mounted) to other equipment during normal operation. When installing and using this product, maintain a 20 cm (or greater) distance between the antenna and the head or body of the user or nearby persons. Attached antenna must not be touched during transmitter operation.

### **Battery – Caution Points**

- The equipment contains a rechargeable Lithium Polymer battery.
- In the event of damage to the battery or the equipment, do not handle without appropriate protective clothing.
- Do not attempt to open, crush, heat or set fire to the battery.
- In the event of damage to the battery or equipment, ensure there is no risk of short-circuit whilst handling or shipping.

Pack with non-conductive materials that give suitable protection.

Refer to sections “Waste Electrical and Electronic Equipment” and “The Battery Directive”

- If the battery fluid leaks, stop using the product immediately.  
If the battery fluid gets onto your clothes, skin, or eyes then rinse the affected area with water and consult a doctor. The fluid can cause injury and blindness.
- Always dispose of batteries in accordance with local laws or requirements.

### **Battery – Lifetime**

- The battery is rechargeable.
- Do not store above 30°C for prolonged periods, as this will reduce the life of the battery.

## **Waste Electrical and Electronic Equipment and the Battery Directive**



Disposal and recycling: When the equipment or its batteries reach the end of their useful life, they must be disposed of responsibly, according to any applicable country or municipal regulations. Do not dispose of Waste Electrical and Electronic Equipment or batteries as normal domestic waste; they must be taken by the user to a separate waste collection point designated for safe handling and recycling in accordance with local laws.

Waste Electrical and Electronic Equipment and batteries contain materials that, when correctly processed, may be recovered and recycled. Recycling product reduces the need of new raw materials and also reduces the amount of material that is sent for disposal as landfill. Improper handling and disposal can be harmful to your health and the environment. For more information regarding where the equipment can be accepted for recycling, please contact your local authority, recycling center, distributor or visit the website

<http://www.hwmglobal.com/company-documents/>

### **Waste Electrical and Electronic Equipment.**

HWM-Water Ltd is a registered producer of Electrical and Electronic Equipment in the United Kingdom (registration number WEE/AE0049TZ). Our products fall under category 9 (Monitoring and Control Instruments) of The Waste Electrical and Electronic Equipment Regulations. We take all environmental issues seriously and fully comply with the requirements for collection, recycling and reporting of waste products.

HWM-Water Ltd is responsible for Waste Electrical and Electronic Equipment from customers in the United Kingdom provided that:

The equipment was produced by HWM-Water Ltd (Palmer Environmental / Radcom Technologies / Radiotech / ASL Holdings Ltd) and supplied on or after 13th August 2005. or The equipment was supplied before 13th August 2005 and has been directly replaced by HWM-Water Ltd products manufactured since 13th August 2005.



HWM-Water products supplied after 13th August 2005 can be identified by the following symbol:

Under HWM-Water Ltd.'s Terms and Conditions of Sale, customers are responsible for the cost of returning Waste Electrical and Electronic Equipment to HWM-Water Ltd and we are responsible for the costs of recycling and reporting on that waste Instructions for returning Waste Electrical and Electronic Equipment:

1. Ensure that the Waste Electrical and Electronic Equipment meets one of the two conditions above.
2. The waste will need to be returned in accordance with the regulations for transporting equipment with lithium batteries.
  - a. Pack the equipment in strong, rigid outer packaging to protect them from damage.
  - b. Attach a Lithium Warning Label to the package.
  - c. The package must be accompanied by a document (e.g. consignment note) that indicates:
    - i. The package contains lithium metal cells;
    - ii. The package must be handled with care and that a flammability hazard exists if the package is damaged;
    - iii. Special procedures should be followed in the event the package is damaged, to include inspection and repacking if necessary; and
    - iv. A telephone number for additional information.
  - d. Refer to the ADR regulations on shipping dangerous goods by road.
3. Return the Waste Electrical and Electronic Equipment to HWM-Water Ltd using a licensed waste carrier.

In accordance with the regulations, customers outside the United Kingdom are responsible for Waste Electrical and Electronic Equipment.

### **The Battery Directive**

As a distributor of batteries HWM-Water Ltd will accept old batteries back from customers for disposal, free of charge, in accordance with the Battery Directive.

PLEASE NOTE: All lithium batteries (or equipment containing lithium batteries) MUST be packaged and returned in accordance with the relevant regulations for transporting lithium batteries.

A licensed waste carrier must be used for transporting all waste.

For more information on Waste Electrical and Electronic Equipment compliance or the Battery Directive please e-mail [CSservice@hwm-water.com](mailto:CSservice@hwm-water.com) or phone +44 (0)1633 489 479

### **Radio Equipment Directive (2014/53/EU):**

#### **1. Radio frequencies and Powers.**

The frequencies used by the wireless features of this product are in the 433MHz, 869MHz & 2.4GHz ranges.

Wireless frequency band and maximum output power:

- Proprietary 433.92MHz, 869.85MHz : less than 25mW ERP.

Proprietary 914.5 MHz : less than 0.2mW

(Refer to the label on the product supplied).

- Bluetooth 2.45GHz : less than 1mW.

#### **2. Antennas**

Only antennas recommended and supplied by HWM should be used with this product.

### **Regulatory Compliance Statement:**

Hereby, HWM-Water Ltd declares that this equipment is in compliance with the following:

Radio Equipment Directive: 2014/53/EU and the relevant UK Statutory Instruments requirements.

A copy of the full text of the UK and EU declarations of conformity is available at the following URL:

[www.hwmglobal.com/product-approvals/](http://www.hwmglobal.com/product-approvals/)

### **FCC Compliance Information:**



**Fluid Conservation  
Systems**

Fluid Conservation Systems,  
1960 Old Gatesburg Road, Suite 150,  
State College, PA 16803  
T: 1-800-531-5465

The following product models:

Patroller 4

(PAT4/\*914/1)

Comply with the rules, as applicable.

### **FCC compliance statement:**

- 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 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. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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

FCC ID: RUZ-154.

Contains FCC ID: RI7-S42M.

**Industry Canada – Compliance Statement:**

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

This device complies with Industry Canada licence-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, including interference that may cause undesired operation of the device.

This product complies with CAN ICSED RSS-102 / NMB RSS-102.

IC: 10962A-154

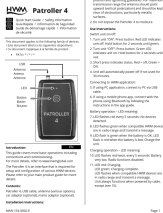
Contains IC: 5131A-S42M.

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MAN-154-0002-E

**Documents / Resources**

	<p><a href="#">HWM Global Patroller 4</a> [pdf] User Guide Patroller 4, Patroller</p>
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## References

- [💧 Water.com Bottled Water | Delivery Service](#)
- [🔍 HWM | Energy Management, Pressure Control, Data Collection, Environmental Monitoring, Leak Detection,](#)
- [🔍 HWM | Energy Management, Pressure Control, Data Collection, Environmental Monitoring, Leak Detection,](#)
- [🔍 Company Documents](#)
- [🔍 Product Approvals](#)