

User manual



Leader WASP



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Read this manual carefully, before the first use

Warning Alarm for Stability Protection



This manual was designed to familiarise you with the use of the **Leader WASP**.

The instructions for use and safety guidelines must be followed in order to prevent accidents. Any disassembly or repair must be performed by either **LEADER** or an approved dealer.

This manual presents the simplicity and ease of use of the **Leader WASP**. In order to improve this manual **LEADER** remains open to your suggestions. Please do not hesitate to contact us.

Reference product

Reference	Product
D11.06.030	Single Leader WASP with Accessories and Shockproof Case
D11.06.031	Double Leader WASP with Accessories and Shockproof Case

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1 INTRODUCTION

The **Leader WASP** is an innovative monitoring system designed to protect emergency services workers in a variety of situations.

The **Leader WASP** - or Warning Alarm for Stability Protection - is highly portable and lightweight.

It can be attached to almost anything and alarms users to the slightest movement or vibration.

It means emergency services personal can concentrate on the task working safely in areas of extreme pressure.

The **Leader WASP** device would be used in a variety of circumstances including:

- Collapsed structures
- Road traffic collisions
- Trench rescues
- Monitoring shoring systems
- Structural fires
- Internal breach operations
- Dangerous building structures following fire / flood or other incidents

The **Leader WASP** monitors movement from **0.1° to 2.6°** and / or vibration from **0.5hz to 100hz**.

It contains a magnetic base for easy and quick attachment to metal - and comes with fixings to allow attachment to glass, metal, concrete and other structures.

The **Leader WASP** can be attached in **ANY** position in conjunction with a variety of **WASP** attachments.

The **Leader WASP** device is alarmed with a simple push button. The **Leader WASP** will calibrate and alert users when activated.

The **Leader WASP** is armed with 8 x red LED strobes and an adjustable siren is **IP66** and **CE** rated and constructed of a heavy duty casing suitable for the harshest conditions.



2 PRODUCT FAMILIARISATION

- Alarm the **Leader WASP** using three push buttons and two rotary dials.



- **Leader WASP** provides monitoring to any surface at any angle.



1/ On/Off Button

- Push **ON/Off** button  to activate / deactivate device.



2/ Volume Control

- Push button  to control the volume.



3/ Set Button

- Push button  to set the device.




4/ Movement Dial

- Adjustable movement sensors dial . Monitors movement from 0.1° to 2.6° .



5/ Vibration Dial

- Adjustable vibration  sensor to monitor vibration from 0.5hz to 100hz .



6/ Audible and Visual Alarm

- Audible siren to alert user to movement/vibration. Volume can be adjusted with eight LED strobes to provide visual warning.
- Comfort blink every **15 seconds** to indicate device is working.



3 OPERATIONAL GUIDELINES

➤ Step 1

Remove the **Leader WASP** from the supplied case in safe area.


We suggest users remove gloves or use fingerless gloves when operating the **Leader WASP** to prevent debris interfering with switches.

➤ Step 2

Operator should decide on range of movement (from **0.1° to 2.6°** and vibration (**0.5hz to 100hz**)

Unless vibration monitoring is required this should be set to zero to prevent unwanted alarm.

➤ Step 3

Activate the **Leader WASP** by depressing the **ON/OFF**  button fully.

The user will hear a **'click'** and the **ON/OFF** button will squawk and flash twice to indicate the device is on.

The **ON/OFF** button will flash every **15 seconds** to indicate the device is on - but has not yet been set.



➤ Step 4


Adjust the volume by pressing and holding the volume button (this is the button in the middle at the top). The alarm will sound.

Rotate the device - with the button still pressed, away from the operator to decrease volume or the opposite direction to increase volume.

This is useful during incidents when an audible alarm may distress casualties.



➤ Step 5

Press the **SET** button  and the **Leader WASP** will enter calibration phase. Now close the lid.

Wipe the magnetic base plate and attach to the area to be monitored directly or using one of the **Leader WASP** attachments.

The **Leader WASP** will remain in calibration phase for a maximum of *45 seconds*.



➤ Step 6

Position the device to the surface to be monitored.

The **Leader WASP** can be attached directly to metallic objects and flat surfaces or to any other surface at any angle utilising the supplied attachments (see attachments page).

The **Leader WASP** will remain in calibration phase until it is in position.



➤ Step 7

The unit will flash repeatedly to indicate the unit is calibrating.

When the unit has reached its position of datum - and is no longer moving - the flashing will cease and monitoring phase will begin.



➤ Step 8

The **Leader WASP** will offer a comfort flash four times a minute to indicate to users that the **Leader WASP** is working and is in monitoring phase.

We recommend the operator waits until they have seen two '**comfort**' flashes, in a safe area, to ensure the **Leader WASP** is calibrated and working.



3.1 Unit Alarms

The **Leader WASP** will alarm if movement and/or vibration is detected.

This will occur in accordance with the requirements selected by the user.

An audible siren and/or a flashing strobe will alert users to potential danger.



3.2 Immediate Action

On hearing or seeing visual alarm users should perform immediate **360°** risk assessment.

Once the nature of the alarm has been determined users should immediately evacuate the area - or reset the device.



3.3 Reset Device

If the device requires resetting following a false alarm due to the device being knocked or moved by human intervention the device can be quickly reset.

Providing it is safe to do so users can reset the **Leader WASP** without removing it from its fixed monitoring position.



Users should:

- Open lid carefully
- Switch device off, then on by depressing **ON/Off** button.
- Depress green button to re-arm **Leader WASP**
- Allow unit to self-calibrate. Once device stops flashing, users can continue knowing **Leader WASP** is armed.
- **Leader WASP** will flash every **15 seconds** indicating the device is in monitoring phase.



4 ATTACHMENTS

The **Leader WASP** attaches directly to metallic surfaces but it is also supplied with a number of attachments enabling the device to attach to any surface in any position.



4.1 Magnetic Surfaces

The galvanised steel and rubber magnetic contact pad enables the **Leader WASP** to be placed directly onto magnetic surfaces.

The device will work in *ANY* position at *ANY* angle.

This enables users to quickly attach the **Leader WASP** to anything magnetic.

Users activate the device, select degree or movement and/or vibration and place device onto magnetic surface.

Users must perform risk assessment and test to ensure the surface is magnetic.



4.2 Leader WASP Clamp

The **Leader WASP** Clamp is a bracket which allows users to attach the **Leader WASP** to non-metallic surfaces.

The **Leader WASP** Clamp can be used in isolation, attaching directly to ladders, scaffolding, door frames or virtually anything up to an opening of 53mm or used in conjunction with the **Leader WASP** Contact Clamp.

The **Leader WASP** Clamp is a toughened plastic bracket with a steel and rubber base which the **Leader WASP** attaches too.



4.3 Leader WASP Contact Clamp

The **Leader WASP** Contact Clamp can be mounted to anything non-metallic in conjunction with the **Leader WASP** Clamp.

The **Leader WASP** Contact Clamp attaches to the non-metallic surface providing a subsequent platform for the **Leader WASP** Clamp. This can be fitted to any non-metallic surface providing it is flat - and therefore impregnable to air.

Push the **Leader WASP** Contact Clamp onto the area to be monitored ensuring black pressure handle is upright. Close handle, a pressure should be felt to confirm adhesion. Repeat procedure with other handle.

Once fitted, test the unit has a solid fix and attach **Leader WASP** Clamp.



4.4 WASP Rescue Strut Bracket

The **Leader WASP** Rescue Strut Bracket enables users to attach the **Leader WASP** to circular objects.

This means the **Leader WASP** can be easily attached to anything cylindrical up to 550mm including rescue struts and street furniture.

The **Leader WASP** Rescue Strut Bracket consists of a strap and bracket, a steel and rubber plate which allows rapid **Leader WASP** deployment at any angle or position.



4.5 Leader WASP Multi-Purpose Plate

The **Leader WASP** Multi-Purpose Plate is a steel plate which allows the **WASP** to be used in multiple scenarios.

The square-shaped plate can be used as a nail plate and attached to wood shoring systems, used with the **Leader WASP** Carabiner or used as the base plate with a ratchet system (not provided).

Attach the plate to the area to be monitored and attach the **Leader WASP** directly to the **Leader WASP** Multi-Purpose Plate.



4.6 Leader WASP Carabiner

The **Leader WASP** Multi-Purpose Plate can be used in conjunction with the **Leader WASP** Carabiner Slip Lock to monitor areas at angles where the unit may slip.

Simply attach the **Leader WASP** Carabiner Slip Lock to the **Leader WASP** Multi-Purpose Plate and the **Leader WASP** attaches directly to the Plate.

The **Leader WASP** Multi-Purpose Plate can then be lowered or slid into position using the **Leader WASP** Carabiner Slip Lock. The end away from the plate can be secured via a carabiner to a suitable anchor. The unit should be set prior to lowering.



4.7 Leader WASP Ratchet Strap

The Multi-Purpose Plate can be used in conjunction with a 50mm ratchet strap allowing users to monitor larger areas.

Simply thread the ratchet strap through the **Leader WASP** Multi-Purpose Plate in any angle and secure.

Users should perform a risk assessment before attaching the **Leader WASP** Ratchet Strap to ensure the structure is safe.

Once the ratchet is tightened, place a wedge or piece of wood, behind the plate to create a stable platform.

The **Leader WASP** unit can then be placed directly onto the magnetic **Leader WASP** Multi-Purpose Plate.



5 MAINTENANCE

The **Leader WASP** is a self-contained unit and should not be modified or removed from its casing by anyone under any circumstances - other than qualified **Leader WASP** technicians. Any attempts to do so will invalidate any warranty.

There are a number of weekly checks recommended:

- Test audible siren
- Test strobe alarm
- Test batteries
- Ensure rotary dials remain free from debris
- If unit comes into contact with water / moisture place in heated / ventilated room to dry

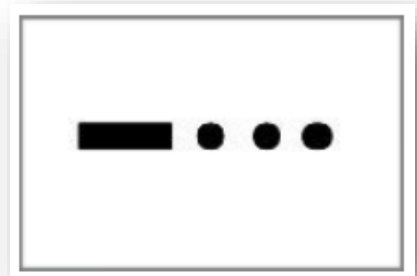
The **Leader WASP** should **NOT** be used unless the user is satisfied testing procedure was successful.

Users should monitor and care for the device - to ensure the **Leader WASP** remains in optimal working order.

5.1 Battery Usage

Batteries should be checked on a weekly basis. We recommend they should be replaced after active operational use.

The **Leader WASP** will flash the letter 'B' in Morse code to indicate low battery -dash, dot, dot, dot - but this should **NOT** be solely relied on.



5.2 Battery Cover

The **Leader WASP** is **IP66** rated but requires the battery cover to be screwed tightly to preserve this rating.

The covers are extremely durable and are opened and closed by simply turning to unscrew. This cover must be closed to function.



5.3 Magnetic Base Plate

It is important before using the **Leader WASP** to ensure the magnetic base plate is clean - and free from debris to ensure a clean contact to the area to be monitored and / or the **Leader WASP** attachments.

When attaching directly to magnetic surfaces users should ensure the contact surface area is large enough to afford maximum adhesion.



6 SPECIFICATION

- **Sample Frequency:** 100hz
- **Measurement Range:** 360 degrees in three directions
- **Resolution:** +/-0.01mm
- **Accuracy:** +/-0.1mm
- **Power Requirements:** 4 x 1.5V C Cell Batteries
- **Operational Battery Capacity:** Continuous use - one week
- **Dimensions:** Height: 140mm Depth: 150mm Width: 170mm
- **Total Weight with Batteries:** 3.15kg
- **Weight Single Leader WASP:** 11,90Kg
- **Weight DOUBLE Leader WASP:** 19,10Kg

Materials

- **Body:** Specially treated toughened casing
- **Lid:** Toughened transparent casing

Magnetic Contact Pad

- **Pull Force:** 40kg
- **Shear Force:** 25kg

Controls

- **Movement:** Dial setting: 0.1° - 2.6°
- **Vibration:** Dial setting: 0.5hz to 100hz
- **Power:** On/Off
- **Set:** Arm/Disarm
- **Volume:** Off/High

Alarms

- **Audible:** Siren (adjustable)
- **Visual:** 8 x Red LED Strobes
- **Water / Dust Proof:** IP66

7 WARRANTY



LEADER guarantees to the original buyer of **Leader WASP** that this device has no material or workmanship defects for a duration of two (2) years from the purchase date for the control box and one (1) year for the rechargeable battery. This limited warranty only applies to the original buyer and not to any third parties to whom the equipment may be resold.

LEADER obligation under this warranty is specifically limited to replacement or repair of the device (or its parts), and only after **LEADER** has inspected the device and deems it to be defective due to the fault of **LEADER**. To qualify for this limited warranty, the buyer must return the equipment to **LEADER** in a timely manner after discovering said defect. **LEADER** will examine the device. In the event **LEADER** determines that the defect is its fault, the company will resolve the problem within a reasonable time period. If the device is covered by this limited warranty, **LEADER** will bear the repair costs.

If any defect attributable to **LEADER** under this limited warranty cannot be reasonably resolved by a repair or replacement, **LEADER** could choose to refund the device purchase price, minus a reasonable depreciation cost, to fulfil its obligations of this limited warranty. If **LEADER** so chooses, the buyer must send the device to **LEADER** for free and without claim or constraint.

This warranty is limited. The original buyer, any person to whom it was later sold, or anyone who may be the intended recipient of the device, may not require the payment of damages from **LEADER** in case of injury and/or property damage due to faulty equipment produced or assembled by **LEADER**. Some countries do not allow damages to be disallowed or limited: the above paragraph may not therefore be applied in certain countries.

LEADER will not be held liable under this limited warranty in the event the device was used inappropriately, neglected (including the absence of reasonable care), had an accident, or was repaired or modified by a third party.

THIS WARRANTY IS EXPLICITLY A LIMITED WARRANTY ONLY. IN RESPECT TO THE EQUIPMENT, LEADER REFUSES ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND SUITABILITY FOR ANOTHER SPECIFIC USE. NO WARRANTY OF ANY KIND OTHER THAN THAT PROPOSED BY LEADER UNDER THIS DOCUMENT WILL BE ENFORCEABLE.

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