



# IS YOUR EMERGENCY SAFE?

WASP is an innovative but simple monitoring system suitable for many emergency applications

- CE CE RATED
- 66 IP 66 RATED
- UK MADE IN THE UK
- oo ROBUST & PORTABLE
- 7 DAY CONTINUOUS MONITORING



ROAD TRAFFIC ACCIDENTS



COLLAPSED TRENCHES AND SUPPORTS



COLLAPSED STRUCTURES



CRITICAL EMERGENCIES



STRUCTURAL FIRES



# WASP Warning Alarm for Stability Protection

MOVEMENT

VIBRATION

Any questions? Please call us +91-011-46052020



# IS YOUR EMERGENCY SAFE?

Monitor the danger and reduce the risk

The WASP is an innovative but simple monitoring system designed to protect emergency services workers and members of the public.

It is the world's first digital monitoring system created specially to assist emergency services workers and keep them safe in a variety of scenarios.

The WASP, or Warning Alarm for Stability Protection, attaches to any surface in any position and provides an early warning of movement and vibration providing protection from:

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

The WASP was conceived by experienced fire fighter and International Search and Rescue specialist Matt Keogh in conjunction with UK industry leading monitoring experts Datum Group.

It provides a welcome substitute to traditional methods of monitoring potential movement and removes the potential for human error.

The WASP can detect movement from 0.1° to 2.6° and / or vibration from 0.5hz to 100hz.

The WASP's magnetic base provides for quick and easy attachment to metal – and is supplied with a variety of attachments to provide fixings to glass, metal, concrete and other structures.

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

### WASP KEY FEATURES AND BENEFITS:

- Portable and light weight with rapid deployment
- User programmable SMART functions
- Configurable alarm settings
- High impact resistant composite body
- Magnetic base for rapid site deployment
- Audio and visual alarms for any scenario
- Simple standardised operating procedure
- Applicable to a wide range of emergency scenarios



# Warning Alarm for Stability Protection



Operational and Training Manual

Proud Supplier to UKISAR





# WASP Operational Guidance

## Contents

Introduction.....	(3)
Product Familiarisation.....	(4)
Operational Guidance.....	(6)
Attachments.....	(9)
Maintenance.....	(12)
Specification.....	(13)



## 1: Introduction

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

The 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 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 WASP monitors movement from  $\pm 0.2.6^\circ$  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 WASP can be attached in ANY position in conjunction with a variety of WASP attachments.

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

The WASP is armed with 8 x red LED strobes and an adjustable siren is IP55 and CE rated and constructed of a heavy duty casing suitable for the harshest conditions.

WASP is designed and hand-built in the UK.



## 2: Product Familiarisation



Alarm the WASP using three push buttons and two rotary dials



WASP provides monitoring to any surface at any angle

## 2: Product Familiarisation

### 1: On / Off Button

Push red button to activate / deactivate device.



### 2: Volume Control

Push black button volume control



### 3: Set Button

Push green button to set the device



### 4: Movement Dial

Adjustable movement sensors dial. Monitors movement from 0° to 2.6°



### 5: Vibration Dial

Adjustable vibration sensor 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 WASP from the supplied Peli case in safe area.

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



#### Step 2

Operator should decide on range of movement (from 0° to 2.6° and vibration (0.5hz to 100z)

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



#### Step 3

Activate the WASP by depressing the ON / OFF button fully. The user will hear a 'click' and the red button will squawk and flash twice to indicate the device is on.

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



#### Step 4

The user can set the volume by depressing the volume button - this is the black button in the middle of the top row.

Depress and hold the button to sound the alarm. Rotate the device to the left to increase volume or to the right to

decrease volume.

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



### Step 5

Press the green button and the 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 WASP attachments.

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



### Step 6

Position the device to the surface to be monitored.

The 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)



### Step 7

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

This will continue until its datum has been reached when it the flashing will cease.



### Step 8

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



## Unit Alarms

The 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.



## Immediate Action

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

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



## Reset Device

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

Providing it is safe to do so users can reset the 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 WASP
- Allow unit to self-calibrate. Once device stops flashing, users can continue knowing WASP is armed.
- WASP will flash every 15 seconds indicating the device is in monitoring phase.



## Attachments

The WASP is supplied with a selection of attachments which can be used if there is insufficient surface area to place the WASP or when area is non-magnetic.



## Magnetic Surfaces

The galvanised steel and rubber magnetic contact pad enables the 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 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.



## WASP Clamp

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

The 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 WASP Contact Clamp.

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



## WASP Contact Clamp

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

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

Push the 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 WASP Clamp.



## WASP Rescue Strut Bracket

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

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

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



## WASP Multi Purpose Plate

The 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 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 WASP directly to the WASP Multi-Purpose Plate.

## WASP Carabiner

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

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



The WASP Multi-Purpose Plate can then be lowered or slid into position using the 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.

## 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 WASP Multi Purpose Plate in any angle and secure.

Users should perform a risk assessment before attaching the 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 WASP unit can then be placed directly onto the magnetic WASP Multi-Purpose Plate.

## Maintenance

The WASP is a self-contained unit and should not be modified or removed from its casing by anyone under any circumstances - other than qualified 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

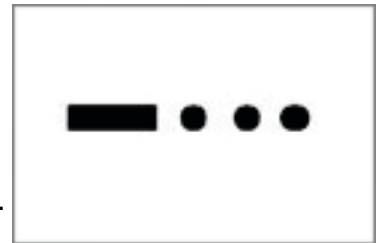
The WASP should NOT be used unless user is satisfied testing procedure was successful.

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

## Battery Usage

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

The 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.



## Battery Cover

The WASP is IP55 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.



## Magnetic Base Plate

It is important before using the 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 WASP attachments.

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





# SPECIFICATION

SAMPLE FREQUENCY	100hz
MEASUREMENT RANGE	360 Degrees in 3 directions (3 degree movement range in operation)
RESOLUTION	+/-0.01mm
ACCURACY	+/-0.1mm
POWER REQUIREMENTS	4 x 1.5V C Cell Batteries
DIMENSIONS	
HEIGHT	140mm
DEPTH	150mm
WIDTH	170mm
TOTAL WEIGHT WITH BATTERIES	3.15kg
MATERIALS	
BODY	High impact resistant composite
LID	Plastic
MAGNETIC CONTACT PAD	Galvanised Steel and Rubber

OPERATIONAL BATTERY CAPACITY	Continuous use - 1 week
MAGNETIC CONTACT PAD	
PULL FORCE	40kg
SHEAR FORCE	25kg
CONTROLS	
MOVEMENT	Dial setting 0-2.6
VIBRATION	Dial setting 0.5hz to 100hz
POWER	On/Off
SET	Arm/Disarm
VOLUME	Off/High
ALARMS	
AUDIBLE	Siren (adjustable)
VISUAL	8x red LED Strobes
WATER/DUST PROOF	IP 66

## CONTACT DETAILS

Medihelp Healthcare Pvt. Ltd.  
6052/1, D-6  
Vasant Kunj, New Delhi-110070



+91-011-4605 2020



medihelpindia@gmail.com

MOVEMENT

VIBRATION