

Safety Regulations

Correct Use

The motionSCOUT (hereinafter referred to as instrument) is a highly sensitive motion sensor and may be used as alarm instrument and/or personal distress instrument (immobility alarm). A Personal Alert Safety System senses movement or lack of movement and activates manually or automatically an audible and optical alarm signal (which can also manually be activated) to alert and assist others in locating a person who is in danger.

It is imperative that this operating manual be read and observed when using the instrument. In particular, the safety instructions, as well as the information for the use and operation of the apparatus, must be carefully read and observed. Furthermore, the national regulations applicable in the user's country must be taken into account for a safe use.



Danger!

This product is supporting life and health. Inappropriate use, maintenance or servicing may affect the function of the device and thereby seriously compromise the user's life.

Before use the product operability must be verified. The product must not be used if the function test is unsuccessful, it is damaged, a competent servicing/maintenance has not been made, genuine MSA spare parts have not been used.

Alternative use, or use outside this specification will be considered as non-compliance. This also applies especially to unauthorised alterations to the apparatus and to commissioning work that has not been carried out by MSA or authorised persons.

Liability Information

MSA accepts no liability in cases where the product has been used inappropriately or not as intended. The selection and use of the product are the exclusive responsibility of the individual operator.

Product liability claims, warranties also as guarantees made by MSA with respect to the product are voided, if it is not used, serviced or maintained in accordance with the instructions in this manual.

Description

Product	Version
motionSCOUT	Switch version with and without temperature sensor Switch version with and without manual alarm reset
motionSCOUT K	Key version with and without temperature sensor Key version with and without manual alarm reset
motionSCOUT K-UK	Key version with JCDD/38 conform sound pattern with and without temperature sensor

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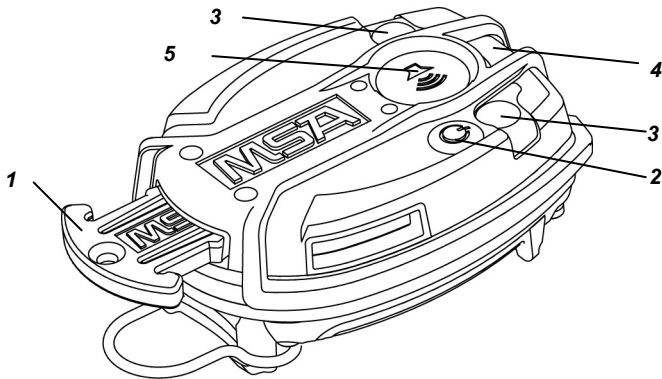


Fig. 1 Overview and Brief Description of the instrument

- 1 Key [Key version only]
- 2 ON / OFF Button [Key version only OFF]
- 3 red LED [Alarm LED]
- 4 Status LED
- 5 Alarm Button

Construction

The instrument consists of a sturdy and waterproof plastic housing. The housing contains three LED indicators confirming the proper operation.

Battery Status

LED	Frequency	Battery Capacity
green	1 Hz	Full Battery Capacity
red	1 Hz	Battery Warning - full alarm time is only 1 h

Thermal Warning

When the operational temperature range of the instrument has been exceeded it will emit a two tone sound (Hi-Lo) every 2 ½ seconds while this condition persists.



Attention!

Avoid Overheating! When the thermal warning is given, remove the instrument to a cooler environment. Otherwise, it may cause degradation or the system may become inoperative.

Use



Attention!

In the event of damage the instrument must be removed from the hazardous area.

The instrument must be carried on the body in the hazardous areas. Electromagnetic radiation (radio transmissions) may cause interference. Minimize nearby radio transmissions if excessive interference occurs.

Switch version	Key version
1. Clip the instrument to the belt/harness in a suitable position.	
2. Push the ON / OFF button for approx. 1 second. The instrument will emit an alarm sound for a two seconds test period. The Status LED will flash to indicate that the instrument is switched on.	Pull out the key from the bottom side of the case. The instrument will emit an alarm sound for a two seconds test period. The LEDs will flash to indicate that the instrument is switched on.
3. In the event the users remains motionless for approx. 25 seconds, the instrument will emit a pre-alarm warning for approx. 15 seconds (UK version approx. 8 sec) at increasing sound level. Movement will cancel this pre-alarm immediately.	
4. If the user cannot move during the pre-alarm period, the full alarm will sound after approx. 15 seconds (UK version approx. 8 sec).	
5. The instrument can also be operated manually. Simply press the alarm button. Once activated the alarm can only be cancelled by switching OFF the device.	
6. If the instrument is equipped with the manual alarm reset function, you can simple cancel the alarm by pressing the alarm button twice within one second (does not apply to UK versions).	
7. To switch OFF the instrument push the two buttons (ON / OFF and then Alarm) for min. 4 seconds at the same time.	To switch OFF the instrument push the key into the bottom side of the case and push the ON / OFF button for min. 4 seconds.
8. When the battery is near the end of its life, the instrument emits a short acoustic warning followed by a red flashing of the Status LED.	

Maintenance and Cleaning

There are no serviceable parts inside the instrument. In order to maintain the instrument in proper condition it should be kept clean with a damp cloth using soap and water.

Battery fitting



Do not open the instrument in hazardous areas. Watch Polarity!

1. Remove battery cover (screw off back panel), insert and connect the two batteries.
2. Replace battery cover and screw down firmly. The instrument is now ready for use.

Technical Data

Dimensions	100 x 75 x 45 mm
Operating Temperature	-30°C to +60°C
Weight	230 g including batteries
Ingress Protection	IP67
Sound Pressure Level	Main Alarm ≥ 95 dB @ 3 m
Frequency range	2000 - 3000 Hz
Frequency range	pre-alarm 2 signals / second at increasing sound level
	full-alarm 3 signals / second at maximum sound level
Battery	2 AA LR6 cells -20°C ≤ T _{as} ≤ +50°C T4 - Durcell Plus Power MN1500, Duracell Industrial AA LR6 T3 - Varta 4706 Max Tech
Battery Life	> 200 hours (activated) / 10 hours (full alarm)
Temperature warning	starts at exceeding internal temperature of 80°C
Low battery	short acoustic warning followed by a red flashing Status LED

Approval:

ATEX Directive 94/9/EC

BVS 07 ATEX E154; II 1G Ex ia IIC T3/T4 Ga; I M1 Ex ia I Ma

EN 60079-0:2012, EN 60079-11:2012, EN 60079-26:2004, EN 50303:2000

EMC Directive 2004/108/EC

EN 61 000-6-2:2006, EN 61 000-6-3:2007

IECEx Directive

IECEx BVS 08.0020: Ex ia IIC T3/T4 Ga; Ex ia I Ma

IEC 60079-0:2011; IEC 60079-11:2011, IEC 60079-26:2004

AUS / NZ



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Ordering Info

Designation	Part No.			
Version:	-T [temperature sensor]	-R [manual alarm reset]	-T-R [temperature sensor, manual alarm reset]	[normal]
motionSCOUT	10088033	10088475	10088477	10088031
motionSCOUT K [key version]	10088034	10088476	10088478	10088032
motionSCOUT K-UK				10091539
motionSCOUT K-T-UK	10091540			
motionSCOUT battery opening tool (5 pcs)				10092567
motionSCOUT spare clips (5 pcs)				10094370