

Man Down DATA SHEET

Battery Level Indication

The MAN DOWN is equipped with a battery low level warning. When the battery LED flashes twice repeatedly, the battery has reached critical level and needs charging immediately.

A warning message will also be sent to the LoneALERT web interface to provide a visual warning to the LoneALERT administrator.

Health and Safety Policy

LoneALERT, MAN DOWN and other products in the LoneALERT family are designed to complement your organisations' existing Health and Safety and Lone Working Policy. They do not constitute a policy within their own right.

All products in the LoneALERT family are designed and operate by advising people when a lone or remote worker is potentially in trouble. Individual procedures and policies as defined by your organisation can then be followed.

It is the duty of the lone worker and supervisors to ensure they have received sufficient training and have sufficient knowledge of LoneALERT to respond effectively to any incident.

Data Usage

The MAN DOWN uses a minimal amount of data to transmit. Acquiring a GPS location every minute of a 12 hour shift will only use in the region of 5MB of mobile data a month. This is a fraction of the data limits on offer on current mobile phone contracts.

In addition, the device uses SMS and voice so we would advise that sufficient allowance is made as part of your sim contract. SMS messages are sent when activating, updating and cancelling LoneALERT timers, when Panic or Man Down alarm is activated and GPRS connection is not available and every 4 hours to acquire a GPS fix.

Safe Usage

For your safety, and the safety of others, please adhere to the following safe operation guidelines.

Do not switch on the device where it may be prohibited to use a mobile phone or when such use may cause disturbance or danger.

- Do not operate when driving.
- Do not operate in hospitals.
- Switch off the device when refuelling at petrol stations or in the vicinity of fuels or chemicals.
- Do not use in areas where explosives are in use or stored.
- Ensure the battery does not come into contact with the water.
- Do not expose the battery or device to hot surfaces or direct sunlight.
- When transporting keep the battery away from metal objects.
- Do not tamper with or damage the battery with nails or sharp objects.
- Use only the batteries supplied by the manufacturer.
- When re-charging use only units that comply with the requirements of DIN EN 60950-1:2003.

	 Battery	 GSM	 GPS/Alarm
Indicator Off 	Device on stand-by	Device on stand-by, Connected to GSM Network	Device on stand-by
On 	Battery fully charged		
Flashing 	Battery is charging	Trying to connect to the GSM network, Data Transfer	Device is trying to find the location
Flashing twice at a time 		Call Initiation	Device found its location
On 		SIM error / impossible to detect the GSM network (when on stand-by)	
Flashing 		SIM error / impossible to detect the GSM network	Alarm signal activated (ALARM)
Flashing twice at a time 	Battery has reached a critical level		
Both indicators on 	Device is switching off		

Technical Specifications

GPS Receiver	uBlox 50-channels
Sensitivity	Indoor GPS: -160 dBm
Internal Antenna	Patch
GSM Frequencies	Dual-Band 900/1800 or 850/1900MHz
Vibration	✓
Keyboard	5 keys
Keyboard Lock	✓
Battery	1050mAh (Li-ion)
LED Indicators	3
Weight	80g
Dimensions	92x44x18mm
Internal Memory	1MB
Rec. Operating Temperature	0 up to 50C
General Operating Temperature	-20 up to 60C

Battery Life

Transmissions per 25 hr	1440	24
Fixes per 24h	86400	480
Duty Cycle	100%	27%
Life Time (Hr)	4	96

Electronic Specification

Parameter	Min. (avg.)	Norm. (avg.)	Max. (avg.)
Supply Voltage	4.5V DC	5V DC	5.5V DC
Current	~1mA	~60mA	~100mA

Maintenance and repair

The MAN DOWN is a high-quality product and should be handled carefully. The following advice will assist you in meeting the guarantee requirements.

Do not let the device get wet. In the precipitation, humidity or other liquids there may be minerals which can cause corrosion of the electrical components. If the MAN DOWN does get wet, take out battery and allow device to dry fully before re-inserting the battery.

Do not use or keep the device in dusty and dirty places or damage may occur to the components.

Do not keep the device in high temperatures as these may reduce the life of the electronic parts. damage batteries or deform the casing.

Do not keep the device in a cold environment. As the device warms to room temperature condensation may occur which could cause the failure of electronic components.

Do not try opening the device, with the exception of removing the battery and sim housing cover.

Do not throw, knock or shake the device as this could break components and lead to device failure.

Do not clean the device with strong chemicals, solutions or cleaning agents.

Do not paint the device. The paint may block moving parts and prevent the device operating.

Use the supplied and approved antenna only. Antennas which are not approved may damage the device and may also infringe the legislation governing use of radio equipment.