

# **Suresafe™** GMD-15P Standalone Man Down Alarm System Available for Individual and Group use

**Protect Lone Worker in Factory, Prison, Lab, Ship & Airplane  
Maintenance, Hospital and dangerous place, etc.**



**Suresafe** Man down unit is simple to operate giving you rapid alert spreading to all members in same group to help reduce the risk. This system is made for general use, no need of professional electronic training or knowledge.

Not like others, our man down unit is not alone; it has **fellowship** among the man down units in same group. If either member is in emergency and press its Panic button, other members will receive the signal and know who is in problem.

It consists of one (or more) base unit (MD-15BB) with up to 15 man down units (MD-15P), available in indoors and outdoors. The effective distance in outdoor open area among man down units is 200 meters, between man down unit and base unit is 300 meters.

For bigger protection area, one repeater (MD-15R1) can extend the distance to “600 meters among two man down units” or “800 meters among man down unit and base unit”.

- Patented group relationship provides **real time, immediate mutual rescue and near protection** for all users in same group.

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## **MAN DOWN UNIT**

The Man down unit will emit call help signal **automatically** for prompt rescue when the user is fell down or non-moving, due to accident of faint, heart attack, epileptic paroxysm, or poison gas leakage, etc. The man down unit has 3 kinds of protection setting:

1. No-motion detection
2. Tilt detection
3. Tilt & No-Motion detection

### **1. TILT DETECTION**

If the Man down unit leans over 45 degree for a predetermined period of time, the Man down unit alarm will beep for several seconds as pre-alarm to warn the user that an alarm is about to be activated.



### **2. NO-MOTION DETECTION**

If the user keeps in same position without moving for a predetermined period of time, the Man down unit alarm will beep for several seconds as pre-alarm to warn the user that an alarm is about to be activated.



### **3. TILT & NO-MOTION DETECTION**

If the Man down unit leans “over 45 degree and NO MOTION” for a predetermined period of time, the Man down unit alarm will beep for several seconds as pre-alarm to warn the user that an alarm is about to be activated.



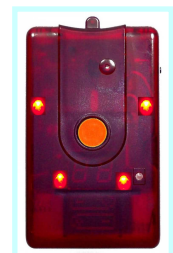
## **PRE-ALARM AND ALARM**

The pre-alarm is helpful to avoid false alarms. Over the pre-alarm timing, a radio alarm transmission is sent and the alarm will go off fully accompanied by flashing LEDs to attract attentions. The radio alarm transmission will be detected and latched by the Man down unit located on other member or on site (such as in a security lodge, reception or central control room).

There is an audible warning, flashing light and a numbered light identifies the calling user's unit. The audible alarm and the flashing light stay illuminated until the Man down unit is reset.

## **PANIC ALARM**

If the user is in emergency condition, the Man down unit has a panic button in the front side which the user can press to send an instant radio alarm signal to call help. The alarm will go off fully accompanied by flashing LEDs to attract attentions.



The corresponding number of the calling user will appear on other Man down units of same to identify the member, accompanied by audible alarm.

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## **MD-15R1 REPEATER**



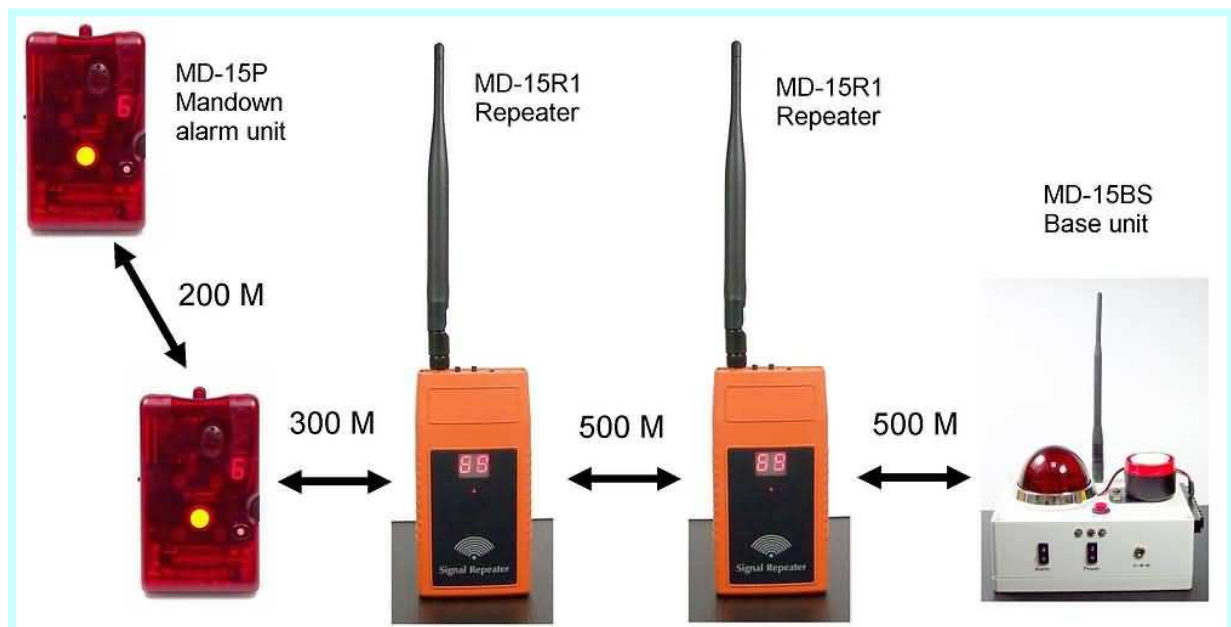
This repeater is an add-on unit of Suresafe Man down alarm system to extend protection distance among man down unit and base unit.

The effective distances of repeater are as follows.

1. Repeater to man down unit: 300 meters
2. Repeater to repeater or base unit: 500 meters

### **For example:**

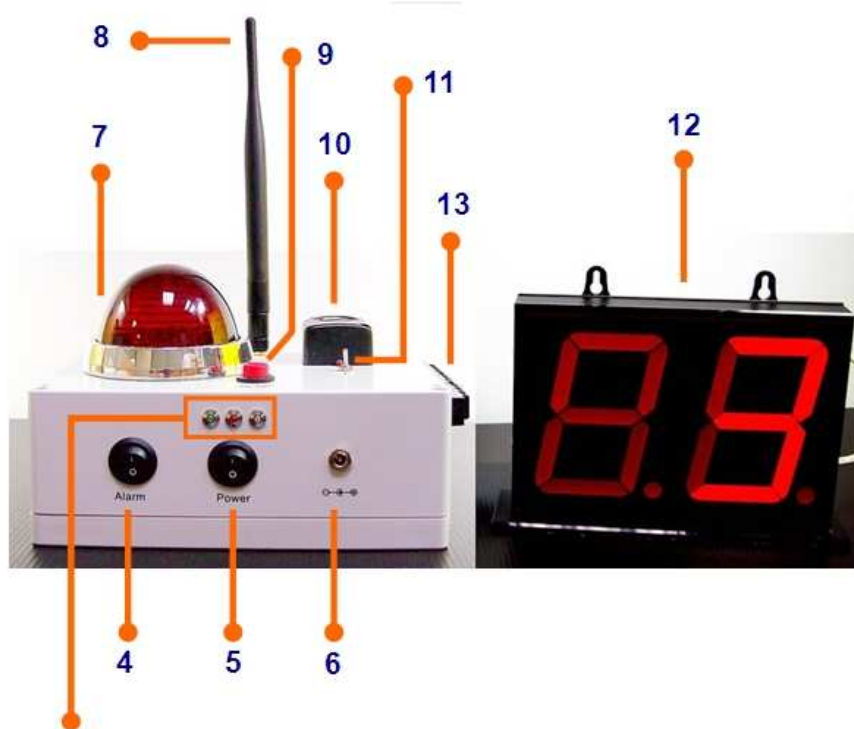
1. The effective distance between man down unit and base unit is 300 meters.
2. If add one repeater among man down unit and base unit, the distance will be extended to about 800 meters radius.
3. If add two repeaters among man down unit and base unit, the distance will be extended to about 1300 meters radius.



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## **BASE UNIT**

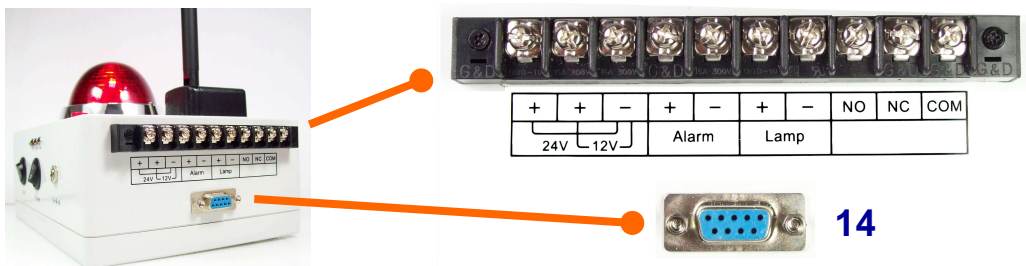
The base unit can be installed on site (such as in a security lodge, reception or central control room, etc.) or on car and truck. The base unit (MD-15BB) has 100 dB loud alarm, warning light and 7 segment LED display to announce the emergency and the code of the calling user. It also has relay output (NO / NC) for activating other call help device.



1. 2. 3.		
<b>With battery inside</b>		
1.	Signal detection	
2.	Battery low warning	
3.	Green – full charged	
<b>Without battery inside</b>		
1.	Signal detection	
2.	---	
3.	Green – Connect with switching power adaptor	

No.	Description
4	Alarm switch
5	On / Off switch
6	Jack for switching power adaptor
7	Warning light
8	Antenna
9	Re-set button
10	Alarm buzzer
11	Alarm volume H-L switch
12	7 segment LED display
13	Terminal Block

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## 13 TERMINAL BLOCK

No.	Description
1	24V DC input
2	12V DC input
3	Power output for alarm
4	Power output for external warning light (Lamp)
5	Relay output NO – NC - COM

14	DB9 Connector for 7 segment LED display
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## ORDER INFORMATION

Model	Description
MD-15P	Man down unit: up to 15 members per group
MD-15R1	Repeater for extend protection distance
MD-15BB	Base unit with alarm volume H-L switch

Assort.	Man down unit	Repeater	Base unit
1	MD-15P		
2	MD-15P	MD-15R1	
3	MD-15P		MD-15BB
4	MD-15P	MD-15R1	MD-15BB

### **GMD-15P is a flexible system, can be operated in different assortment.**

Start with few man down units can protect users themselves, then add repeater to expand the protection range, or add base unit in security lodge or control center to call rescuer when in emergency.

1. **MD-15P only:** Each MD-15P can receive alarm signal from other members in same group, and also send alarm signal to other members to call help.
2. **MD-15P** Man down units + **MD-15R1** Repeater to extend the effective distance.
3. **MD-15P** Man down units + **MD-15BB** Base unit to have audible and visual warning to attract attention when either Man down unit sends call help signal. The Base unit has 7 segment LED to display the code of MD-15P which send call help signal.
4. **MD-15P + MD-15R1 + MD-15BB:** This assortment is basic complete set. MD-15R1 Repeater receives and forward the alarm signal of MD-15P Man down unit to MD-15BB Base unit.

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Effective distance among man down unit, repeater and base unit				
Position	Product	Man down unit	Repeater	Base unit
Outdoor	Man down unit	200 M	300 M	300 M
	Repeater	300 M	500 M	500 M
	Base unit	300 M	500 M	
Indoor	Man down unit	40 M	60 M	60 M
	Repeater	60 M	80 M	80 M
	Base unit	60 M	80 M	

**SPECIFICATIONS** \*Specification may change without notice.

MD-15P Man Down Unit	
Power	AAA/UM-4 rechargeable battery x 2
Battery duration	3 days for continuous use after full charged
Battery charging time	About 6 hours
Weight	80 g (including battery)
Size	L 9.3 x W 5.6 x T 1.7cm
Alarm sound	65dB
Receiving sensitivity	- 90dBm
Output power	< 10mW (10 dBm)
Country of origin	Taiwan

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MD-15R1 Repeater	
Power	Internal rechargeable battery
	10V Switching power adaptor
Battery duration	3 days for continuous use after full charged
Battery charging time	About 6 hours
Weight	210 g (including battery an antenna)
Size	L 142 x W 71 x T 24 mm (not including antenna)
Receiving sensitivity	- 95dBm
Output power	< 10mW (10 dBm)
Country of origin	Taiwan

MD-15BB Base Unit	
Power	12V 1.2A rechargeable battery (optional)
	12V Switching power adaptor
Battery duration	24 hours for continuous use after full charged
Battery charging time	About 6 hours
Weight	1.7 kgs (including 7 segment LED display)
Size	Base unit: L 21.5 x W 15 x H 13.5cm
	7 segment LED display: 12cm high
Alarm sound	MD-15BB: with H-L switch, High 100 dB, Low 80 dB
Receiving sensitivity	- 95dBm
Alarm output	Relay, Normal Open (NO) – Normal Close (NC)
Country of origin	Taiwan

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