



WRCWD

## WIRELESS HIGH VOLTAGE PROXIMITY ALARM



*The high voltage proximity alarm is designed to alert mask and boom vehicle operators to the danger of contact with a live power line, the result of which could easily cause injury, death or damage to equipment.*



This image shows the potential damage that can occur when a vehicle connects with a power-line. In this case, the driver threw a strap to tie down the logs which then caught the power-lines above, causing this incredible amount of damage. It's important to note that the driver was extremely lucky and walked away, unharmed.

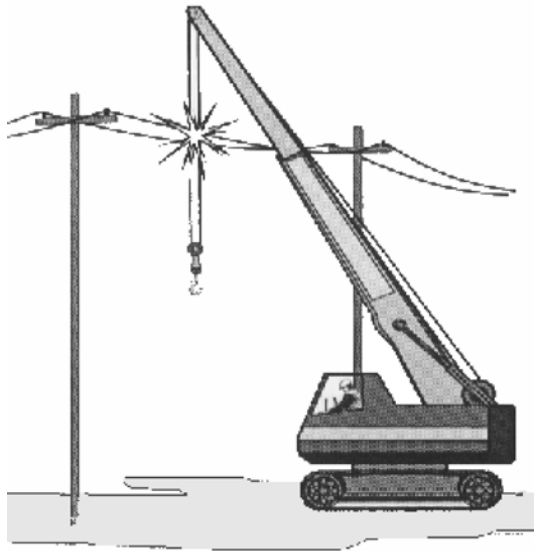
How often have you seen a truck, crane or excavator accidentally caught on a high voltage power line? If you have, you know it's not a pretty sight. Not only can the incident cause serious equipment damage, but it also puts the lives of workers and operators in danger.

That is why Semrad has started distributing the Wireless High Voltage Proximity Detector. Designed to warn the operator and attendants of impending contact with high voltage lines, our Wireless High Voltage Proximity Detector senses the power lines, and when triggered, sounds an alarm to warn the operator and ground staff to check the proximity of the equipment to any nearby power lines.



The wireless high voltage sensor (shown above) comes in a compact, easily installed design. The sensor connects to the control panel/LCD display wirelessly, eliminating any need for troublesome cabling. The integrated solar panel continually charges a lithium-ion battery which, even when stored without light, will keep the sensor powered on and protecting you for up to six days straight! When the LCD display is turned off and disconnected from the sensor, the sensor powers down, and can be stored in this state for months on end, ready to go when you need it next.

*There are over 50 incidents per year in Australia, where vehicles collide with high voltage power lines, resulting in equipment damage and potential injuries.*



### Trigger Levels;

The trigger level is the arbitrary number that is compared to the sensors readings in order to determine the alert state. **There is no direct translation between trigger level or sensor readings and physical distance from a power line.** Remember this unit is not a measuring device. It is designed to be a warning device; to warn the operator and outside ground crew of a nearby high voltage power line. No warning device should be used in place of standard safety rules and precautions. NO warning device can absolutely prevent an accident! However when properly installed and operated, this unit will provide reliable and repeatable proximity warning.

When the system is reset, the trigger level defaults to 10. It can be increased to the trigger limit (set in the menu) or decreased to 5 using ▲ and ▼ respectively. When work at a site has been completed, the trigger level should be set back to 10 so as to maintain the warning capabilities of the High Voltage Proximity Detector.

According to WorkCover, there are over 50 reported incidents where vehicles have collided with high voltage transmission lines each year. These incidents usually occur on equipment and vehicles such as dump truck raising its tipper, excavators getting their boom caught and mobile cranes among others.

Our Wireless High Voltage Proximity Alarms are often used on tall vehicles such as those mentioned above in the construction industry, by utility companies, the fire brigade and even farm equipment. Are you protected?





# We are in the business of **SAVING LIVES**

Dimensions	Width	Depth	Height
Control Unit	17.8cm	6.4cm	13.3cm
Sensor	11.9cm	12.2cm	6.1cm
	Ø	Length	
External Speaker	12.7	12.7	
<b>Construction</b>			
Control Unit	ABS		
Sensor	ABS		
External Speaker	ABS with stainless steel hardware		
<b>Power Supply</b>			
Control Unit	12V-48V DC		
Sensor	Solar powered lithium battery.		
<b>Alarm Outputs</b>			
There are <b>Normally Open</b> and <b>Normally Closed Relay outputs</b> on the rear of the Control Unit. These outputs are only for up to a <b>Maximum of 50Vdc/75Vac</b>			
<b>Alarm Trigger Level Adjustment</b>			
Control unit provides a means for adjusting the alarm point setting. Press + to raise the alarm point and - to decrease alarm point. This provides a means of continuous adjustment from 10-60. <b>(WARNING- This is not a reference to any particular distance).</b>			
<b>Sensing</b>			
Electric field, 50Hz or overseas 60Hz.			
<b>Range of Effectiveness</b>			
Depending on the proximity of the overhead high voltage line and its intensity, this unit can be adjusted to trigger the warning and danger alarms at any desired location from 20 feet to several hundred feet.			

