



Lightning & Surge
TECHNOLOGIES

THUNDERBOLT “LIGHTNINGMAN” LIGHTNING DETECTOR



***THE AUSTRALIAN Lightning
Safety and Protection Specialists***

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STANDARD PACKAGE

- Thunderbolt Lightningman
- Hard Carrying Case
- 220 Vac Mains Adapter
- Indoor Wall Mount

OPTIONAL ACCESSORIES

- Desk Mount
- Nylon Carrying Pouch
- Vehicle 12 Vdc Adapter



THUNDERBOLT LIGHTNINGMAN

Introducing the ThunderBolt Lightningman, a handheld and portable Lightning Detector which has the capability to provide a forewarning to approaching severe weather conditions, and which can assist in the determinations for the suspension and resumption of safe workplace procedures.

The ThunderBolt Lightningman detector uses a proprietary technology to detect and determine the distance to remote lightning activity. It detects, identifies and tracks "Cloud to Ground" lightning activity within 100 kilometers of the users location.

Through the application of advanced electronics and proprietary software, its high sensitivity, single-channel

receiver detects the electro-magnetic field emissions of lightning activity from within an active storm cell. It then converts this data into digital signals which it feeds to the microprocessor which analyzes the detected energy levels on the frequencies observed, and then calculates the distance to the active storm activity.

In addition to identifying the wave-forms characteristic, Thunderbolt performs a continuous analysis of background electromagnetic interference (EMI) at the users location. This function is critical for minimizing false-triggering from non-storm noise sources, and maintaining the accuracy of storm data.

Just as important as the ETA is the "estimated time to clear", where the detector periodically displays the estimated time until the storm clears the area to then mark the safe resumption

of work activity. Upon detection, storm movements are tracked and continuously updated with approach speed and ETA at user location, and displayed on its 2 x 16 text screen.

Modern technology has now put the ability to detect and determine the distance of a remote thunderstorm within the palm of your hand.

ThunderBolt has two different levels of automatic warning, audible and visible, which may be independently programmed using a menu function. This allows for maximum flexibility in a wide variety of applications where different warning times may be required.

THUNDERBOLT LIGHTNINGMAN



STATUS LED

2X16 TEXT LCD

ENTER BUTTON

MENU SCROLL

POWER ON/OFF

TONE ON/OFF

SPEAKER

USERS & APPLICATIONS

The Lightningman detector is typically recommended for any remote workgroup based outdoors, including Exploration Drilling, Blast Crew, Geologists and Survey teams. It is a single sensing technology with intelligence, useful for remote high risk workgroups.

The Lightningman detector is a microprocessor with a LCD display including menus that allow for the programming of various parameters for specific site applications and ranging configurations. A useful benefit is that it stores previous lightning strike data and then compares this with subsequent strike data to determine whether a storm is approaching. If the storm is approaching, it calculates and displays the approach speed in km/h, as well as the estimated time of arrival in minutes.

If lightning is detected and appears to be on a "non" intercepting path, it will display "No Approach Detected", allowing work crews to continue with normal productive activities.

PRODUCT SUPPLIED WITH

The standard ThunderBolt Lightningman package comes complete with a 220 vac mains adapter, an indoor wall mount, and hard carrying case.

OPTIONAL EXTRAS

The following optional accessories are also available; Desk Mount, Weatherized Wall Mount, Nylon Carrying Pouch and the Vehicle 12 VDC Adapter



SCREEN SAMPLES

The ThunderBolt Lightningman detector displays a host of relevant warning information on its LCD display, including:

- The distance to storm activity
- Approach speed in KPH
- The Estimated Time of Arrival (ETA),
- No approach detected



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**WE DON'T KNOW WHERE
OR WHEN LIGHTNING
WILL STRIKE,**

**BUT WE CAN HELP YOU
PREPARE YOUR BUSINESS
TO DEAL WITH IT.**

ABOUT US

Lightning & Surge Technologies are the Australian "Lightning Safety" specialists, and are a key local source of detailed knowledge, and expertise to those organisations who are required to develop policies and procedural that effectively deal with the lightning risk.

Our reputation is such that we are regularly called on by various international and Australian organisations, various sporting groups, and Government industry regulators, to provide guidance, education and training to higher risk workgroups, whilst we actively lobby those with influence to increase public awareness to this catastrophic risk.

Lightning Warning Technologies can help organisations meet their duty to warn, and due diligence obligations, whilst maintaining safe workplaces, where the use of Lightning Warning Systems is fundamental to minimising high cost production losses. Such equipment can provide a scientific basis on which to base

the suspension and resumption of higher risk activities during periods of localised thunderstorms.

Lightning & Surge Technologies are the Australian "Lightning Technology" specialists and have detailed understanding in the application, specification, and supply of Lightning Warning Systems, and Detection Technologies into high value/higher risk operations.

Lightning & Surge Technologies also specialise in the application, specification, and supply of Lightning Protection Systems, Surge Protection equipment, and associated grounding and equipotential bonding solutions .

Lightning & Surge Technologies offer a truly holistic approach to lightning issues.

Trust our experience.

IMPORTANT NOTE

Any portable lightning detector must only be used under the strict guidance of a considered use policy that outlines those steps that need to be taken to ensure that a predetermined safe shelter is sought, whenever thunderstorms are considered local.

Users must be mindful that no technology can predict if, when or where lightning will strike, and that the equipment is not able to detect "cloud to cloud lightning activity which may precede and / or accompany cloud to ground lightning activity

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