

# Lightning Strike Counter

## LST-87



Electromechanical device that counts the number of times an electric atmospheric discharge impacts on the system where it is installed.

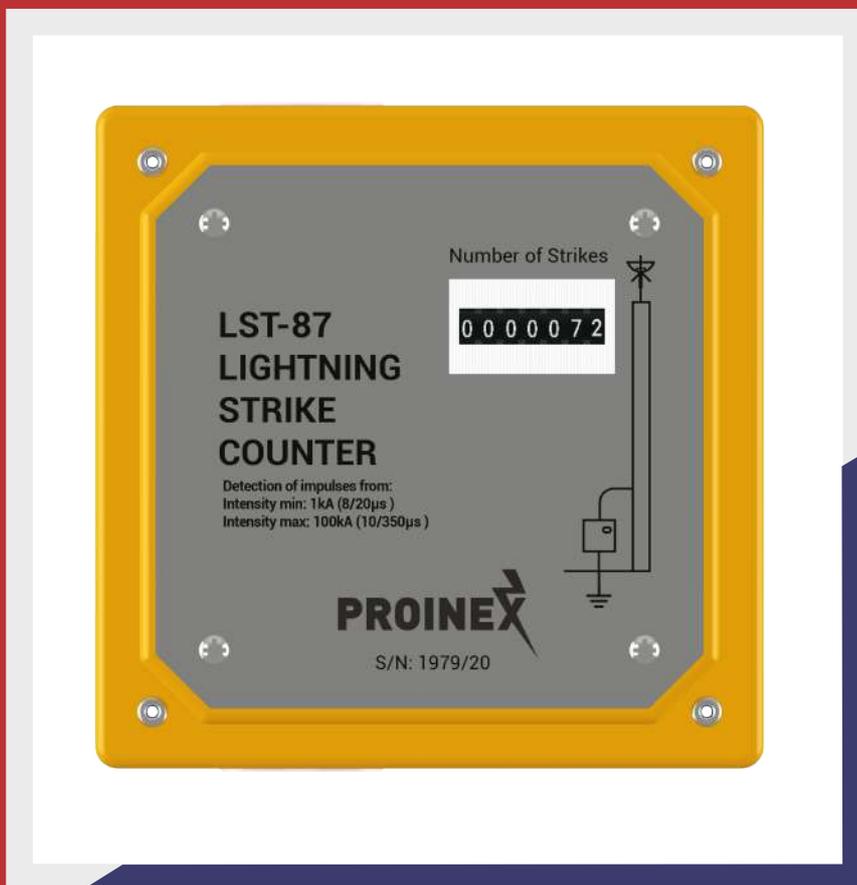
The lightning strike counter counts the number of lightning strikes that impact on a lightning rod.

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It is now possible to measure the workload of a lightning rod

The normal procedure is to install this electromechanical device on a lightning rod.

The counting device is protected by a metal shielding, whose main function is to protect it against inclement weather.



The metal shielding protects it from water, dust, UV rays, etc. It also protects you from electromagnetic interference by complying with Michael Faraday's principle of electromagnetic induction or commonly called "Faraday's Law".

With a display where you can see the digits that indicate the number of impacts computed.

**NO MAINTENANCE REQUIRED**

1-Year Warranty

## How Does the Lightning Strike Counter Work?

The operating principle of the lightning meter is to use the discharge induced current as follows:

When a lightning discharge occurs, the current flows from the point of impact (lightning conductor) to the ground.

The current circulates through the down conductor of the lightning rod which passes through the mentioned hole to the equipment generating an electromagnetic induction that excites the meter and this counts the implosion.

The lightning strike counter is able to use the electromagnetic field that generates the passage of this current

through the connection cable, and this signal is applied to an electronic circuit that controls the meter to increase its count by 1 unit.

It is likely that, in what at first glance seems like a single lightning "strike" event, several discharges will be caused due to the lightning wavefront that is extremely steep.

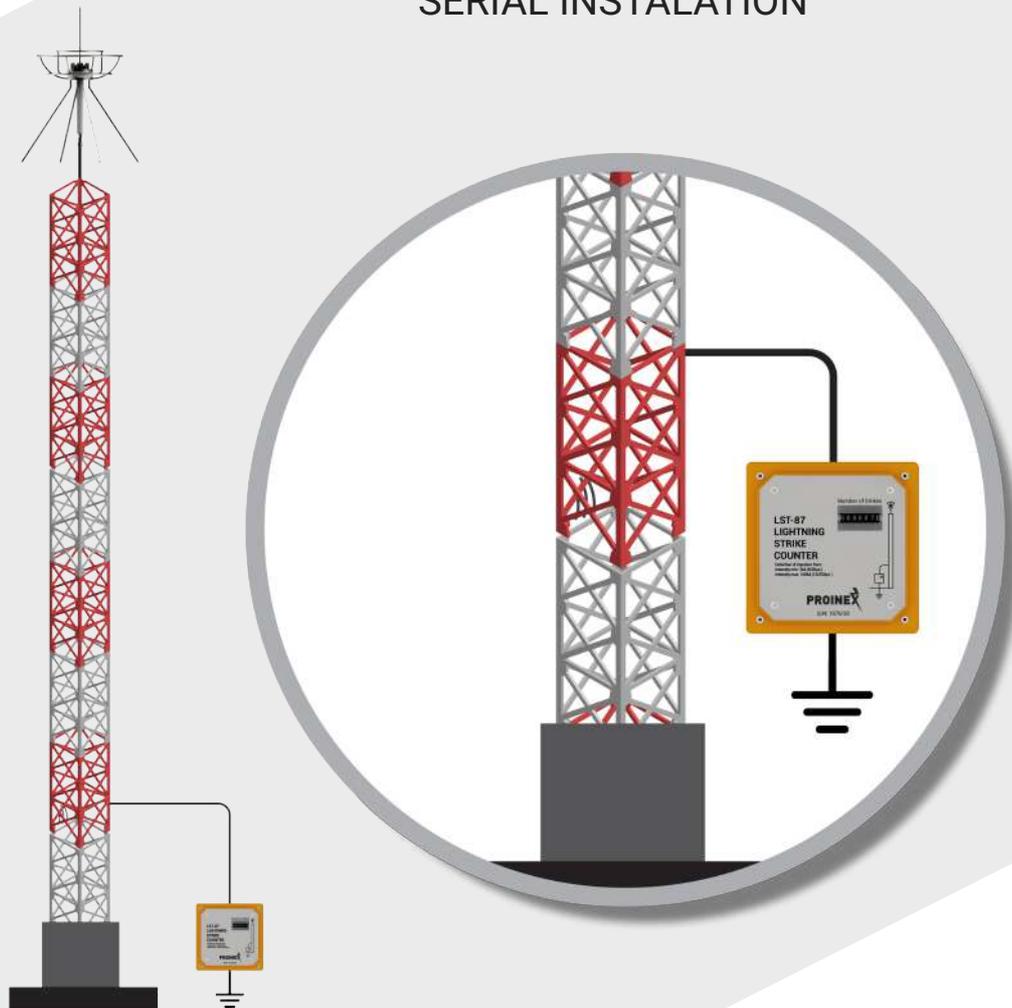
The lightning strike counter technology added to the efficiency of its components, gives us the ability to count several sudden discharges one after another without having to wait for a discharge of the residual voltage that remains in its components.



**Its function is to inform the amount of lightning impacts received in the installation so that the insulation of the electrical installation, the state of the over-voltage protections, the sensor systems, etc. can be checked later.**

# Lightning Strike Counter Installation

## SERIAL INSTALATION

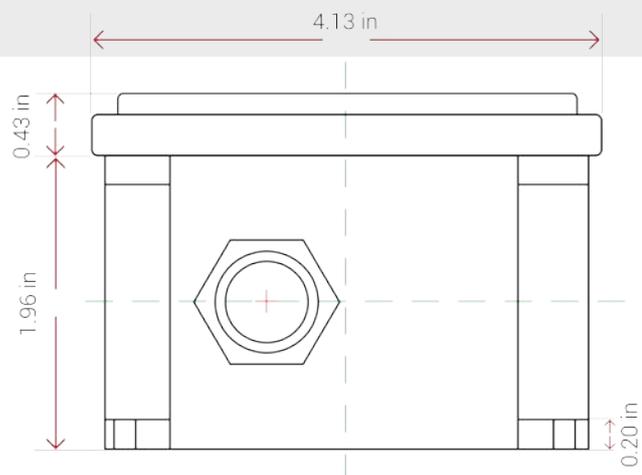
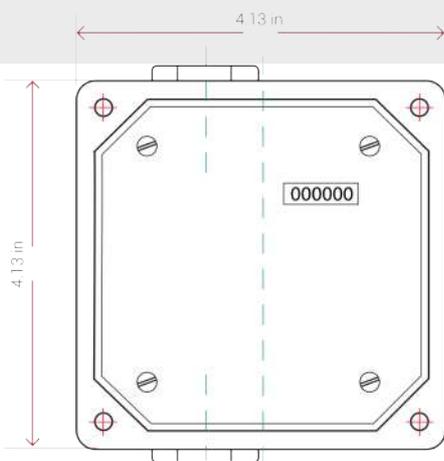


From the column or mast of the lightning conductor installation, a derivation of sheathed-copper cable of up to a maximum of 1.4in<sup>2</sup> is made (nude up to 2in<sup>2</sup> maximum.) at a height of approximately 3.3 feet above the ground.

This branch must be inserted through the metal cabinet's through-hole and connected directly to the grounding system, either to the javelin's neck or to the installation's grounding system.

## Technical Specifications

- Length: 4.13 in
- Width: 4.13 in
- Height: 2.39 in
- Weight approx: 28.22 oz
- Cabinet Materials: Cast Aluminum, with stainless steel front
- Operating Imin: 300A
- Operating Wave 10/350  $\mu$ s
- Maximum number of downloads to be counted: 9999 units



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**CALL US NOW!**

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