

Application

Franklin lightning rod, lightning rod through a "pulse device" to trigger the upward pilot. The pulse device stores the electric field energy between the thundercloud and the earth when the thundercloud approaches, and at the right time, triggers the upward leader to capture the downward leader of the thundercloud. The device works when the thundercloud approaches, and uses its built-in sensor to test the surrounding electric field strength. At the moment of flashover, the polarity of the lightning rod head reverses, the electric field intensity at its top is suddenly amplified, and the upstream pilot discharges until the downstream pilot of the thundercloud is captured.

Features:

1. With energy storage components, it has the ability to trigger the upstream pilot energy to be autonomous and clean: thundercloud electric field energy.
2. Work around the clock.
3. Optimize the head radius, reduce the corona effect, and ensure the normal operation of the pulse device.
4. 304L stainless steel material, anti-corrosion.
5. Especially suitable for small building protection, high cost performance.

Working Principle

The first device, called the pulse device, absorbs the electric field energy between the thundercloud and the earth when the thundercloud approaches, and triggers the upward pilot at the right time.

The second device, called the power supply device, collects and stores wind energy and light energy through several large-capacity capacitors. Therefore, the Saint-Elme Active 2D lightning rod has always been preloaded with energy, thus having the ability to extend the upstream pilot.

