Test Procedure of Saint Elme Activ2D® lightning conductor

Saint Elme Activ2D® lightning conductor can be tested in our factory or directly on site with its remote control tester. However it is highly recommended to have it tested by skilled professionals from the manufacturer.

Reminder : Saint Elme Activ2D® lightning conductor mechanism

The lightning conductor efficiency does not only depend on the excitation time of the tracer on its tip. Saint Elme Activ2D® mechanism consists of generating the ascending tracer but also providing enough energy to ensure its spread until the downward tracer.

A first device, called "impulse device", stores the electrostatic energy present in the atmosphere when a stormy cloud approaches and releases the excitation of the ascending discharge at the right time.

A second device, called "power device", collects and stores the wind and / or the solar energy in several power capacitors. Saint-Elme lightning conductor is thus permanently pre-loaded of high energy which enables it to support the ascending tracer propagation.

Guarantee of Saint Elme Activ2D® lightning conductor : Reminder

Saint Elme® lightning conductor is guaranteed for 2 years.
It is recommended to test lightning conductors after this time to check they are still working efficiently.
The procedure described in the paragraphs below has to be followed for testing.

Saint Elme Activ2D® dedictated Remote Tester

Saint-Elme Active 2D lightning conductor can be tested on site, with its remote control tester (initial checking, periodic checking in compliance with NFC 17-102 and decrees in force, maintenance,...).

Simple and fast, the test does not require any particular operation of removal of the lightning conductor and can be done safely from the ground.

Active 2D® testers communicate by radio wave and cause no electromagnetical interference.

Saint Elme Active 2D® lightning conductor and the testers are both equipped with transmetter / receiver: bidirectional transmission and reception.

- AFV0100TT Remote Tester

AFV0100TT remote tester enables to check the Active 2D® lightning conductor working order. A battery provides this tester with power supply (battery provided). The LCD display indicates the (positive or negative) result straightaway.

- AFV1000TT Remote Tester

The Activ'Test® AFV1000TT remote tester enables to check up to 25 Active 2D® lightning conductors with its 128 x 64 pixels digital display (preloaded in our factory).
A file update can be made afterwards if additional serial numbers have to be uploaded (AFV0005T reference).
The Activ'Test® is provided with a software to load, extract and update data directly on your computer via an USB port. Franklin France can analyze every recorded data.
A reloadable battery provides power to the AFV1000TT tester either by USB cable (cable provided) or battery charger.
Another possible mean of reloading Activ'Test® is via an USB cable and an adaptator (not provided) on the cigar-lighter of your own car.
Activ'Test® can store up to 10 positive test and 10 negative tests by lightning conductor with date and hour, thanks to EEProm and FLASH memories integrated in the microcontroller.

Procedure

The procedure described below has to be followed for Saint Elme Active 2D® testing:

1 - Press  for 2 seconds
2 - Functions 1 and 2 switch on (red colour) = emission
3 - Function 1 switches off, function 2 blinks = reception
4 - Function 3 switches on (rede colour) = end of test

A lightning conductor still works efficiently if "positive test" switches on in green colour.

Reach : 50 meters with no obstacle ; Please avoid testing the product while raining.

Antenna tower and GSM pylons are likely to disturb test signal emission.

Out of warranty if opened.