

Lightning protection Early Streamer Emission



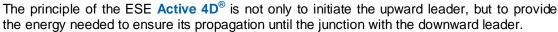


Active 4D® Early Streamer Emission

In compliance with the NFC 17 102 standard from September 2011



Early streamer Emission Use



A first device, called **Í impulse device**î, stores the electrostatic energy present in the atmosphere at the approach of a stormy cloud

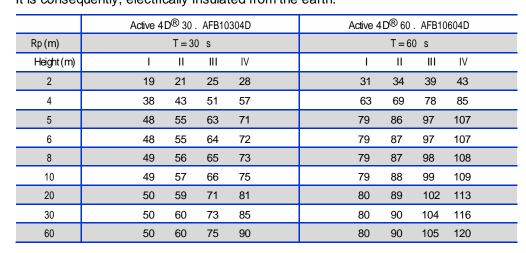
A second device called, **Í power devicel**, allows to collect and store the solar energy in power capacitors.

The Active 4D[®] is, thus, permanently pre-loaded of an important energy which enables him to constantly support the propagation of the tracer.

When a stormy cloud approaches, an integrated sensor measures the value of the electrical field and triggers the impulse device. The innovation of this lightning conductor comes from the use of a second integrated sensor which measures the intensity of the electrical

When the downward leader enters in the lightning protection zone, the measured current increases highly. As soon as this current exceeds a characteristic threshold (1A), the power capacitors / the power device discharge and release the necessary energy for the propagation of the upward leader.

In the latter device, the head of the lightning conductor acts as a capture organ. It is consequently, electrically insulated from the earth.





Active Control

Franklin Technologie ® - A full range of lighting and overvoltage protection. In the continue framework of its products, Franklin France shall be entitled to modify specifications without notice





Storm detection operating

The Active 4D[®] has two sensors which measure the values of the electrostatic and electromagnetic fields.

The value of the alarm threshold is configured from a software installed in a computer.

The detection radius reaches about 30 kilometers.



Lightning counter operating

The Active 4D[®] has a built in lightning strike counting device.

The information on the lightning impact is transferred to the software and shows precised information such as the date of impact, the time of impact and even its current / intensity value (in amperes) of the lightning impact.



Tests and analizes operating

From the computer, can be run tests at distance to check the operating system of the $Active\ 4D^{@}$.

The test is run immediately, at distance with results.

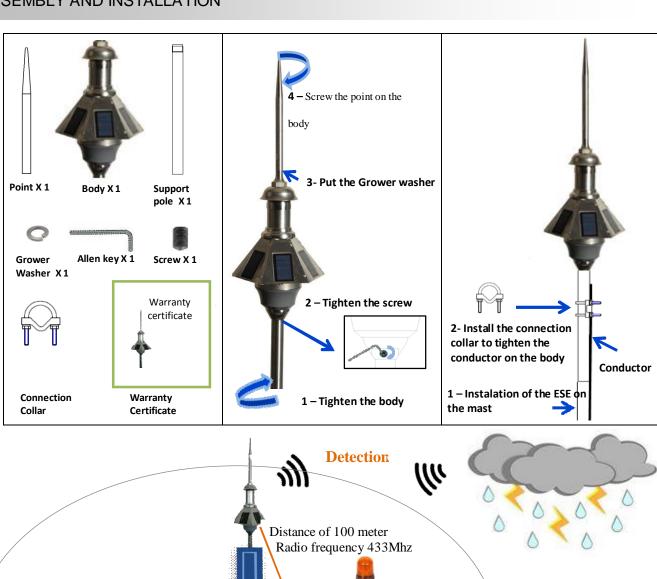
- Graphic with-values of the tension generated by the solar cells
- Graphic with values of the battery tension
- Graphic and values of the temperature evolution of the lightning conductor in degrees Celsius
- Test and value of the VHV

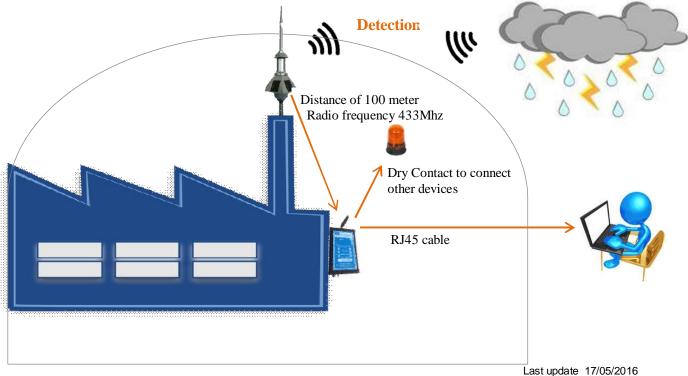
FEATURES

AFB10304D / AFB10604D
Fitting of the lightning conductor in the mast n°1 (covering of 25cm), installation with a FRANKLIN France fixing device according to the height and resistance to the snow and wind
Outside protection for buildings / structures
Remote control at distance with its ActivoControl
Stainless Steel
1000 mm x Ø max 250 mm
5,2 kgs
NFC 17 102: September 2011



ASSEMBLY AND INSTALLATION





Franklin Technologie ® - A full range of lighting and overvoltage protection.

In the continue framework of its products, **Franklin France** shall be entitled to modify specifications without notice