

Lightning products

Early Streamer Emission (ESE)

ACTIVE 2D®30



Dimensions (mm)

Principle and operation

The excitation advance of the Active 2D® is obtained by an “impulse device” initiating the ascending tracer supplemented by a “power device” providing the energy necessary to ensure its propagation up to the junction with the descending tracer.

The “impulse device” stores the electrostatic energy present in the atmosphere as a storm cloud approaches and then triggers the initiation of the upward discharge at the appropriate time. This device is operated by an integrated sensor measuring the value of the ambient electric field. It then causes an almost instantaneous reversal of the polarity of the head of the lightning rod, leading to an amplification of the electric field on its tip.

The “power device” collects and stores energy in power capacitors. The Active 2D® lightning rod is thus pre-charged with significant energy. When the descending tracer enters the protection zone of the lightning rod, the measured current increases sharply. As soon as this current is greater than a characteristic threshold, the power capacitors discharge and release the energy necessary for the propagation of the tracer.

Technical data

Excitation advance	ΔT 30 μs
σ PDA standard deviation	$< 0,8 \sigma_{PTS}$
Shock current resistance 10/350 μs	100 kA
Material	Stainless steel 304L
Protection radius	According to NF C 17-102:2011
Checking correct operation	Dedicated tester (not included)
Warranty	24 months
Reference	AFB10302D
Fixation	Shaft \varnothing 33.7mm (included)
Weight	6,1 kg
Accessories included	Conductive connecting collar
Certifications	
Standards	Compliant with NF C 17-102:2011, appendix C
Qualifoudre	Ineris certificate n°051168352016
ISO 9001 : 2015	AFNOR CERTIFICATION n°2022:102639.9



Test remote control
AFV0101TT



AFV1007CF lightning
strike counter

Lightning Rod Kit + Counter

Ref AFB17302D = ESE Active 2D (AFB10302D) + Counter (AFV1007CF)

Lightning Rod Kit + Remote control

Ref AFB18302D = ESE Active 2D (AFB10302D) + Remote control (AFV0101TT)

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

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