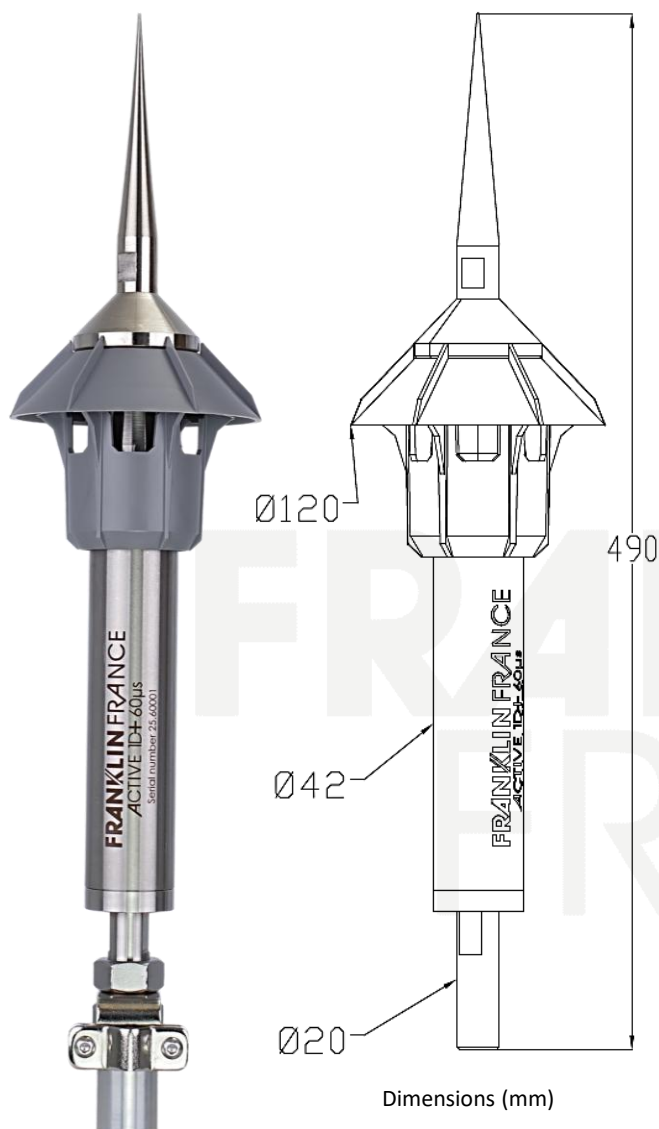




## Early Streamer Emission - ESE

# ACTIVE 1D+<sup>®</sup> 60μs



Dimensions (mm)



Tested in extreme rain conditions



Option : lightning strike counter (AFV1007CF) or kit (AFD27601D)

### Functional principle

The Active 1D+ is an Early Streamer Emission (ESE) with a priming device whose operation is based on an oscillating high-voltage pulse circuit synchronized to the storm phenomenon. The resulting strong amplification of the electric field at the top of the lightning rod tip results in the anticipated emission of an upward tracer at the right moment.

| Reference                               | AFB20601D                                                                                                                |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| <b>Technical characteristics</b>        |                                                                                                                          |
| Efficiency                              | $\Delta T = 60 \mu s$                                                                                                    |
| Standard deviation $\sigma_{ESE}$       | $\sigma_{ESE} = 0,43 \sigma_{SP}$<br>normative requirement $\sigma_{ESE} < 0,8 \sigma_{SP}$                              |
| Protection radius                       | According to NF C 17-102:2011 §5.2.3.2                                                                                   |
| Functional check                        | Dedicated tester (not included)                                                                                          |
| Exposure to weather conditions          | Guaranteed insulation by means of a special deflector (tested under flow $> 56 \text{ L/min/m}^2$ )                      |
| Warranty                                | 5 years                                                                                                                  |
| <b>Mechanical characteristics</b>       |                                                                                                                          |
| Materials                               | Capture tip: Nickel-plated copper<br>Body: 304L stainless steel<br>Deflector: Polycarbonate<br>Internal insulation: PTFE |
| Extension mast attachment               | M20 male thread and locknut                                                                                              |
| Connection component                    | Connector (EN 62561-1) for flat or round down conductor included                                                         |
| Net / gross weight                      | 2,130 kg / 2,630 kg                                                                                                      |
| <b>Product certifications</b>           |                                                                                                                          |
| NF C 17-102 : 2011                      | Certificate BV n°: 24603101/3/1.2.R<br>Compliance with test sequence on the same sample (Appendix C)                     |
| Marking tests                           | Laser engraving<br>Report n°: LiRi-EMA-22112024                                                                          |
| Environmental tests                     | NF EN 60068-2-52 and NF EN ISO 22479<br>Report LCIE n°: 24449057-806976                                                  |
| Electrical tests                        | 100 kA – 10/350μs<br>Report CITEL n°: LER-24-102-RE                                                                      |
| Efficiency tests                        | Report n°: LiRi-HT-13022025                                                                                              |
| EMF tests                               | NF EN 61000-6-2 and -3<br>Report n°: XP30525433                                                                          |
| <b>Quality Management Certification</b> |                                                                                                                          |
| ISO 9001 : 2015                         | AFNOR CERTIFICATION n°2022:102639.9                                                                                      |
| Qualifoudre                             | Certificate Ineris n°051168352016                                                                                        |

Franklin Technologie<sup>®</sup> - 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

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