

Lightning
Protection
Systems



Air Terminal ENZA-2



High performance and high efficiency air terminal..

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The fundamental advantage of the ENZA-2 Air Terminal lies in its high performance behavior and its high resistance to lightning strikes, increasing safety within the standardized coverage radius for a conventional Franklin tip according to NFPA 780 and AEA 92305.

The ENZA-2 Air Terminal is made mostly of 304 stainless steel, and stands out for its particular aesthetics and small size.



**NO MAINTENANCE
REQUIRED**

Patented

304 Stainless Steel

1-Year Warranty

Characteristics of Proinex ENZA-2 Air Terminal

The 5 points model ENZA-2 is a high performance and a high efficiency air terminal thanks to its electrogeometric design (which was carefully studied and designed) that increases the lightning attraction power and therefore decreases the possibility of failure of the equipment before the lightning discharge. This was confirmed in the laboratory tests N° 102 18766 (See comparative table of the results analysed in the tests.)

In the development of the ENZA-2 Air Terminal, the objective was to increase safety within the coverage radius of a passive sensor.

As a result, we now have a design with performance that far exceeds that of a conventional Franklin captor, maintaining the coverage area as required by current regulations.

HOW DOES IT WORK?

The ENZA-2 Air Terminal is a powerful ionizer of the air in its vicinity.

Its electrometry is designed with 4 electrodes of 11.8 inches in length, which are energized by the natural electrostatic field that is increasing by the activity of the storm cloud approaching the protection zone.

This marks a fundamental difference with respect to other Franklin tip air terminals.

Generally we don't find in the market air terminals whose manufacturers perform tests or evaluate the behavior of these equipments in order to develop a product that is safer and more reliable against the danger posed by lightning strikes.

Coverage Radius Table According to Level of Protection

NPCR I		NPCR II		NPCR III		NPCR IV	
ΔH (feet)	R _p (feet)	ΔH (feet)	R _p (feet)	ΔH (feet)	R _p (feet)	ΔH (feet)	R _p (feet)
19.7	45.9	19.7	59.1	19.7	72.2	19.7	85.3
26.2	52.5	26.2	65.6	26.2	85.3	26.2	98.4
32.8	55.8	32.8	72.2	32.8	91.9	32.8	108.3
39.4	59.1	39.4	78.7	39.4	101.7	39.4	118.1
45.9	62.3	45.9	82.0	45.9	108.3	45.9	128.0
52.5	65.6	52.5	88.6	52.5	111.5	52.5	134.5
59.1	65.6	59.1	91.9	59.1	118.1	59.1	141.1
65.6	65.6	65.6	91.9	65.6	121.4	65.6	147.6
		82.5	101.7	82.5	131.2	82.0	160.7
		98.4	101.7	98.4	137.8	98.4	170.6
				114.8	144.4	114.8	180.4

R_p: Protection radius according to the height delta "Δh" and the NPCR.

NOTE: R_p values rounded to the nearest 3.28 ft (one foot).

Comparative Table

CAPTOR	BARLEY VOLTAGE (Uc)	BREEDING TIME (Tc)	CV (Vc)	CV (Tc)
Franklin ENZA-2	441 kVc	141 μ s	1,88%	5,60%
Franklin Sharp Point	440kVc	141 μ s	2,86%	7,90%
Franklin Punta Roma	441kVc	141 μ s	3,49%	9,65%
Franklin 4 Point	440kVc	140 μ s	1,88%	6,20%

In the table we can see that the value of CV (Tc)* obtained in the tests carried out in the High Voltage Laboratory (LAT) of INTI, show the high technical performance of the ENZA-2 Air Terminal compared to the standard Franklin tips.

*Cv : Pearson Variation Coefficient

Installation of Proinex ENZA-2 Air Terminal



1 Franklin ENZA-2

2 3/4" Galvanized Coupling Superior

3 Galvanized pipe mast

The ENZA-2 Air Terminal has a $\frac{3}{4}$ " BSP thread that allows it to be coupled to a mast of the same size, by means of a coupling, or to any other mast size by using a reduction coupling of suitable dimensions.

ENZA-2 Air Terminal Tests According to IRAM 2184-1-1 Norm



The Franklin ENZA -2 has test certificates by INTI (Industrial Technology National Institute from Argentina) and complies with IRAM (Argentina Central Organization for the technical and scientific study of standards) 2184-1-1 standards (Year 2016)

Technical Specifications

- Material: 304 Stainless Steel
- Length: 11.8 in
- Crown diameter: 5.1 in
- Probe length: 8.7 in
- Diameter with mounted electrodes: 11.7 in



**Air
Terminal**
ENZA-2





CALL US NOW!



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