LIGHTNING PROTECTION SYSTEMS

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Prevention and protection against lightning

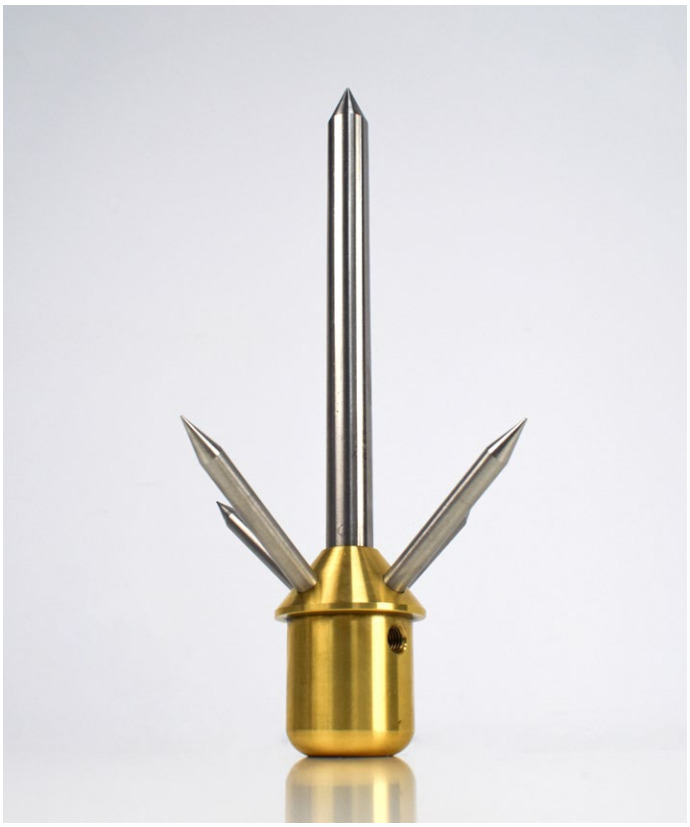
Given the extensive experience of Mediterráneo Señales Marítimas in the field of prevention and protection against lightning, we offer a wide range of lightning arresters, surge protection and prevention products.

National and international regulations

As lighthouses and navaids towers are very prone to be hit by lightning, in MSM we have incorporated in our catalogue safe and effective high-quality products that meet national and international regulations in force, thus achieving greater assurance and the best solution for our customers.

Direct lightning inteception to disperse the discharge

We offer elements to intercept a direct lightning strike on the structure, conduct current safely and disperse the discharge through the land or the sea.



FEATURES

- *The collection system is intended to intercept the lightning strike to lead to ground. Among the various standardized collection systems we offer Early Streamer Emission (ESE) or Franklin Rod Systems.*
- *Early streamer emission (ESE) lightning rods base their operation on the electrical characteristics of the lightning formation. The ray begins with a downward tracer propagating in any direction. Once approaching to objects located on the ground, either one can be struck. They are mainly characterized by issuing a continuous upward tracer earlier than any other object within its protection radius. The rod should be the controlled impact point of discharge, so as to provide the lightning current a path to ground without damaging the structure.*

Model	DAT CONTROLER PLUS
Material	Stainless steel
Early Streamer Emission	Double.
Operation	Under any atmospheric condition.
Electrode isolation	Guaranteed under any operating condition.
Power Supply	Autonomous.
Maintenance	Free.

- *Collection systems by Franklin rods consist of sharing and dissipating the lightning discharge current by a network of conductors. Sections and materials comply with the provisions of the rules defining such systems.*

Model	MAT 1302 FRANKLIN ROD
Material	Stainless steel.
Dimensions (mm)	1 x (Ø 16 x 170) + 3 x (Ø 8 x 65).

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Conductor wire

Ref.	Dimensions (mm)	Material	Weight (Kg)
MAT-050D	9x1000x9	Copper	0.41
MAT-070D	10,5x1000x10,5	Copper	0.63
MAT-095D	12,5x1000x12,5	Copper	0.85
MAT-120D	15x1000x15	Copper	1.10
MAT-150D	16x1000x16	Copper	1.34

Inspection pits for grounding systems

Ref.	Dimensions (mm)	Material
M-510	250x200x215	Polypropylene
M-512	22x22x22	Polypropylene
M-513	300x300x300	Polypropylene
M-520	245x245x115	Cast iron
M-530	320x320x190	Concrete

Bonding bars for inspection pits

Ref.	Dimensiones (mm)	N° conductores	Material	Para arqueta
M-511	25x5x200	4	Copper	Polypropylene
M-521	25x5x150	4	Copper	Cast iron
M-531	25x5x300	4	Copper	Concrete
M-540	60x5x196	4	Stainless steel	Polypropylene
M-541	60x5x242	6	Stainless steel	Polypropylene

Grounding plates

Ref.	Dimensiones (mm)	Material
M-401	500x500x1.5	Copper
M-411	500x1000x1.5	Copper
M-402	500x500x2	Copper
M-412	500x1000x2	Copper
M-403	500x500x3	Copper
M-413	500x1000x3	Copper

Enhancers of ground conductivity

Ref.	Weight (kg)	Material
M-460	3	WELLCONDUCTOR
M-470	25	Special graphite T.T.
M-480	25	Special Clay T.T.

Lightning event counter

Ref.	Dimensiones (mm)	Material	Rango	Temperatura
M-920	85x110x80	Polycarbonate	0-999999	FROM -40° a 50°C

Specifications subject to change without previous notice.

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