

SMART-ESE Early Streamer Emission Air Terminal



Protection Area

The protection area(rp) of a Smart-ESE lightning conductor is calculated according to French Standard NFC 17-102:2011, Thus:

$Rp(h)=\sqrt{(2rh-h^2+\Delta(2r+\Delta(2r+\Delta)))}$ if $h\geq 5m$
and
 $Rp=h\times Rp(5)/5$ if $2m\leq h\leq 5m$

The protection area depends on a number of factor:

$h(m)$: is the height of the ESEAT tip over the horizontal plane through the furthest point of the object/area to be protected.

$r(m)$:20m,30m,45m or 60m according to the Protection Level I,II,III or IV assessed for the site using the Risk Analysis calculation (NFC 17-102:2011 Annex A) .

$\Delta(m)$: $\Delta=\Delta T\times 10$ Field experience has proved that is equal to the efficiency obtained during the ESEAT evaluation tests.



Smart-ESE^{2nd}
www.repsun.com.cn

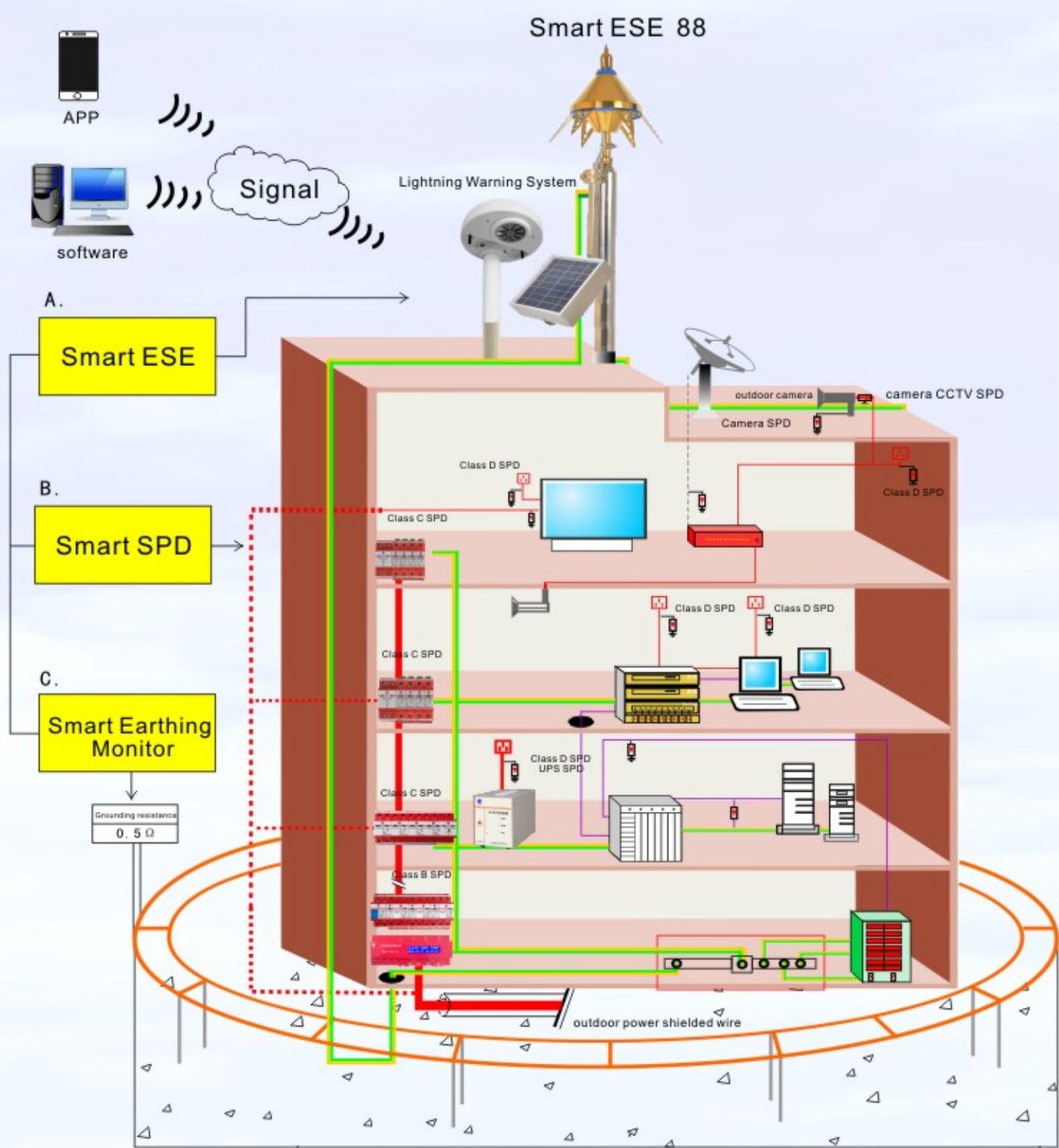
PROTECTION RADIUS

Protection Level I : r=20m							Protection Level II : r=30m						
H(m)	2	3	4	5	10		H(m)	2	3	4	5	10	
ESE88	31	47	63	79	79		ESE88	34	52	68	86	88	
ESE68	27	41	55	68	69		ESE68	30	45	60	76	77	
ESE28	23	35	46	58	59		ESE28	26	39	52	65	67	
ESE25	17	24	34	42	44		ESE25	19	29	39	49	51	
ESE10	10	15	21	26	28		ESE10	12	19	25	31	34	

Protection Level III : r=45m							Protection Level IV : r=60m						
H(m)	2	3	4	5	10		H(m)	2	3	4	5	10	
ESE88	39	58	78	97	99		ESE88	43	64	85	107	109	
ESE68	34	52	69	86	88		ESE68	38	57	76	95	98	
ESE28	30	45	60	75	77		ESE28	33	50	67	84	87	
ESE25	23	34	46	57	61		ESE25	26	39	52	65	69	
ESE10	15	22	30	38	42		ESE10	17	26	34	43	49	

Type		Smart-ESE10	Smart-ESE25	Smart-ESE28	Smart-ESE68	Smart-ESE88
Advanced Triggering ΔT		10 μs	25 μs	40 μs	50 μs	60 μs
Dimension	Height	402mm	394mm	394mm	394mm	394mm
	Diameter(body)	220mm	305mm	305mm	305mm	305mm
Weight(kg)		3.0	3.8	3.5	3.5	4.0
Connection		M20				

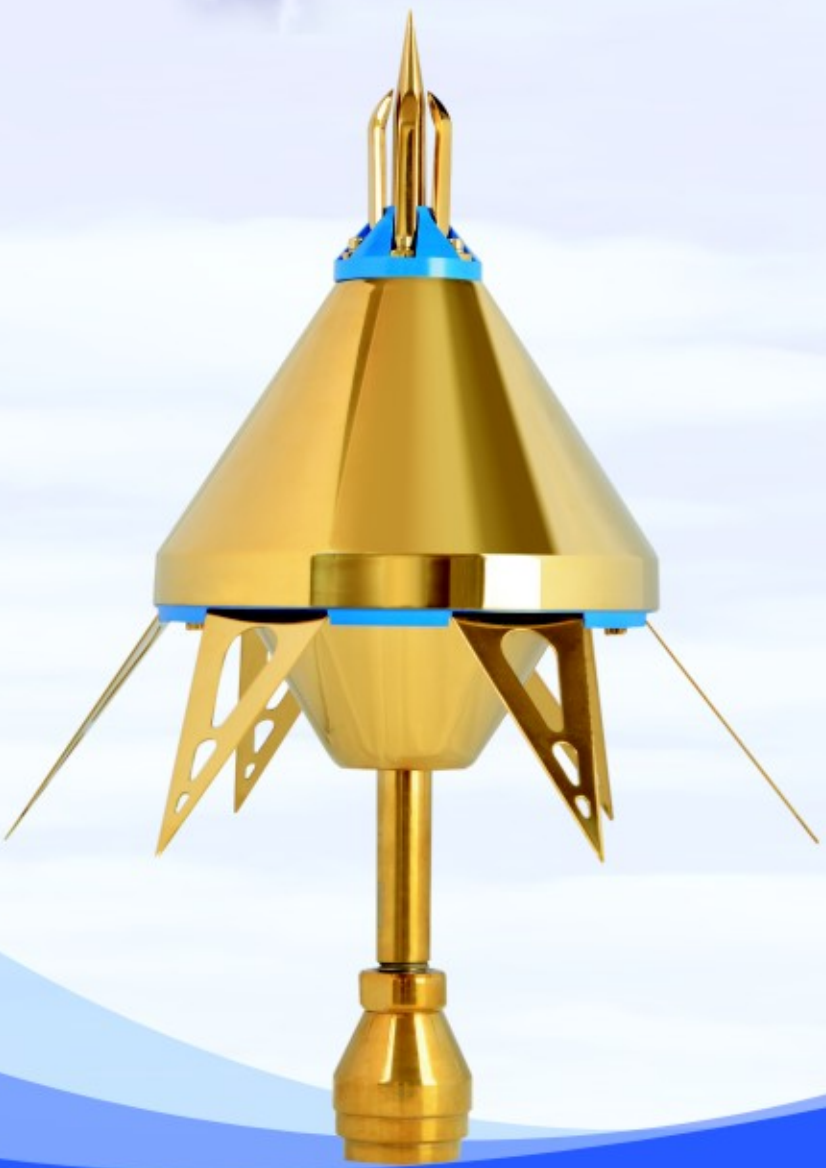
SMART+COMPREHENSIVE SOLUTION



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Early Streamer Emission Air Terminal



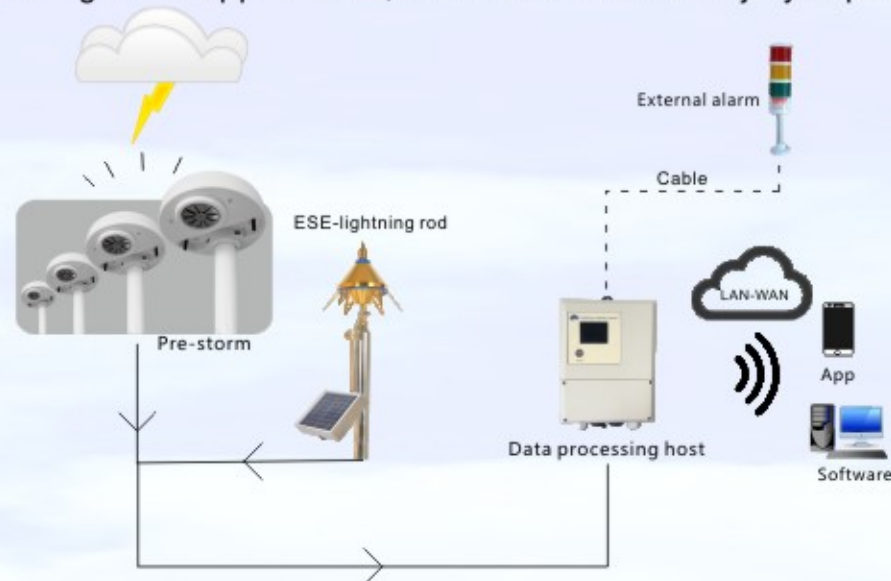


REPSUN, more than a lightning surge protector manufacturer, we provide solutions.

Lightning warning system

Function:

With REPSUN's REP-LWS, there shall be enough time to take action to prevent damage before lightning strike approaches; to reduce the risk of injury to persons; and economic losses;



Features:

- 1: Up to 15-20miles detection radius;
- 2: Rugged construction, long life service ;
- 3: Visual and audible alarms, both on site and by communication like PC, cell phone etc.
- 4: Optional meteorological sensors for expanded weather monitoring and logging;
- 5: Low power consumption, low maintenance.
- 6: Strong anti-interference ability.

Applications:



Installation example

ESE system

1.Active Capture Head



2.Elevation Pole



3.Lightning current monitor



4.Lightning Event Counter



5. Test clamp



6.Rod-to Conductor Clamp



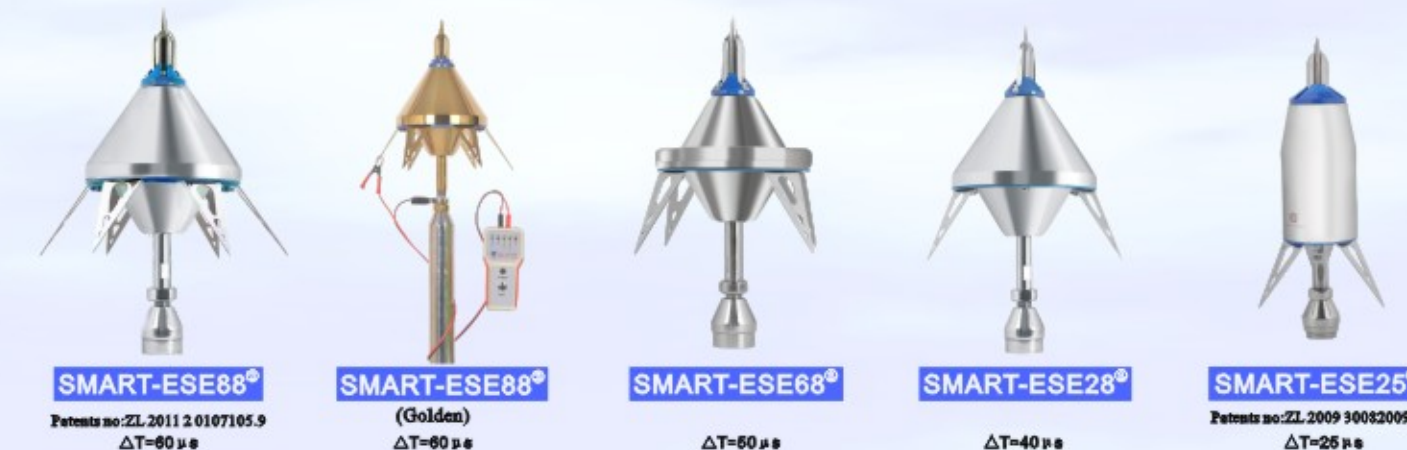
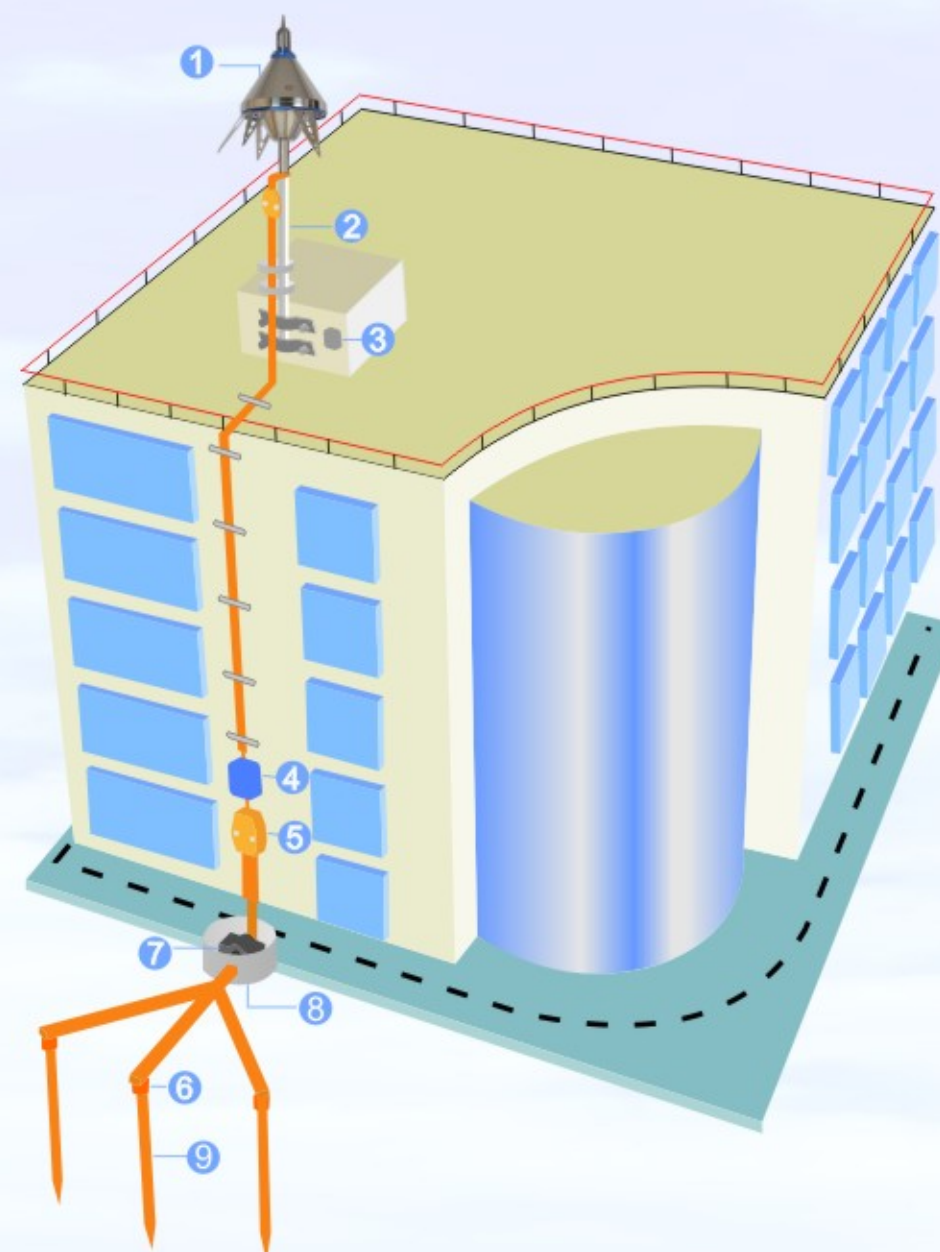
7. Earth Clamp



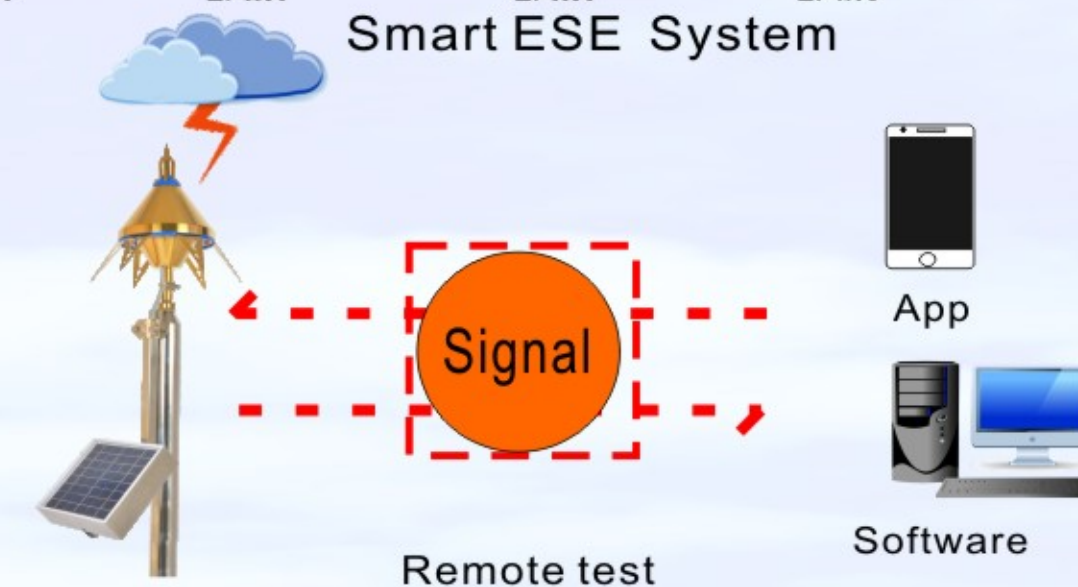
8. Inspection Housing



9. Earth Rod



Smart ESE System



Key Benefits:

- APP remote test;
- Equipped with a smart ESE tester;
- Authorized test report from CNAS laboratory;
- 10 years warranty.

Authorized certificate and test report(In accordance with NFC17-102:2011)

