

French Quality
World Wide Efficiency



www.lpsfr.com

Research & Development

Our Innovations are our strength and allow us to offer you exclusive solutions.

Annual R&D budget = +5% T.O



Study

LPS France offers its expertise and recommendation services to meet your requirements for protection against lightning while preserving the security compliance, standards, budget & aesthetic of your facilities.

Distribution

LPS France has set up a large stock, and effective partnerships with carriers to deliver our products quickly on your sites.

Implementation

LPS France and its trained and experienced partners, advise and support you to optimize the implementation of our products and adapt it to the specific place in compliance with the standards..



Design

LPS France designs the most advanced systems of protection against lightning for your safety and provide effective solutions to the lightning phenomenon in the world.



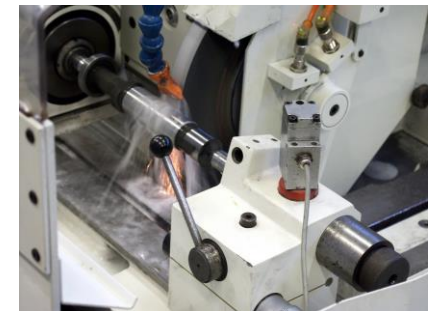
Manufacturing

LPS France manufactures a wide range of products for protection against lightning. Our quality policy and traceability of our products are well controlled and allow us to provide the best guarantees for your safety.



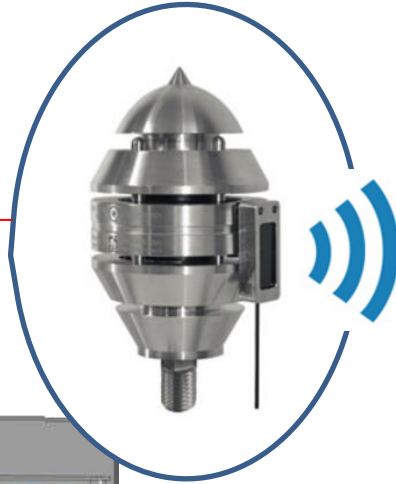
Training

LPS France works in a qualitative approach, both in manufacturing and in supporting its partners. Technical training programs are taught on the subject of Lightning protection. Our certified partners receive ongoing training to ensure quality services.



Paraton@ir®

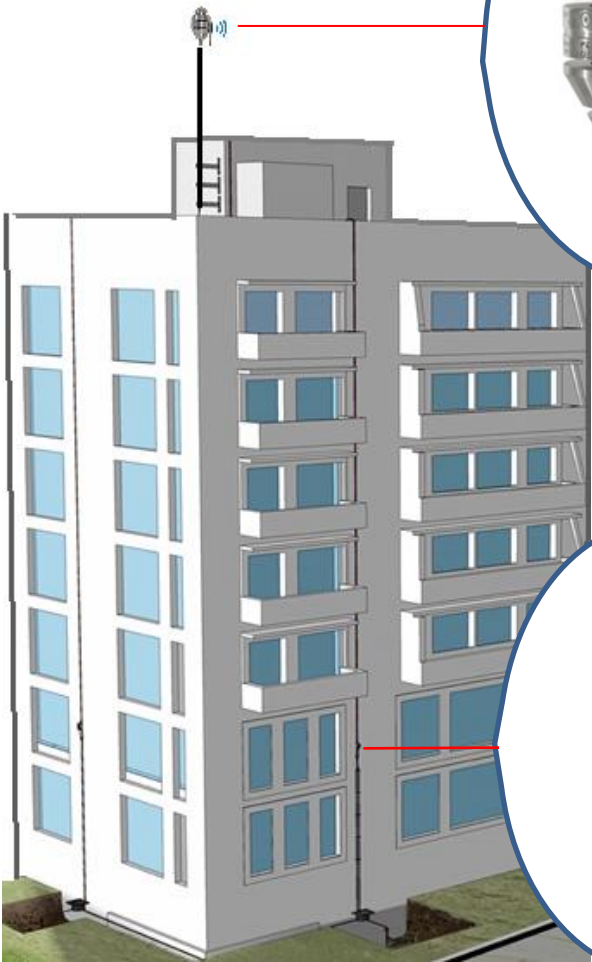
Early Streamer Emitter lightning rods



✓ Remote Diagnostics



✓ Lightning Strike Alert



E.S.E.

Paraton@ir® is an Early Streamer Emission (E.S.E) lightning rod inspired by the latest advances in our knowledge about the effects of lightning, electromagnetism, T.H.T & fluid mechanics.

Sturdy & Reliable

An aluminium alloy and polymeric materials, all patented, form the major part of our lightning rod. Without any fragile priming system or electrical component, we design the most reliable and sustainable product of the market.



Antique



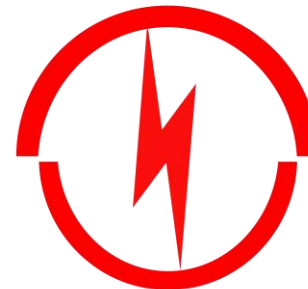
Ruby



Onyx



Natural



Amber



Opal

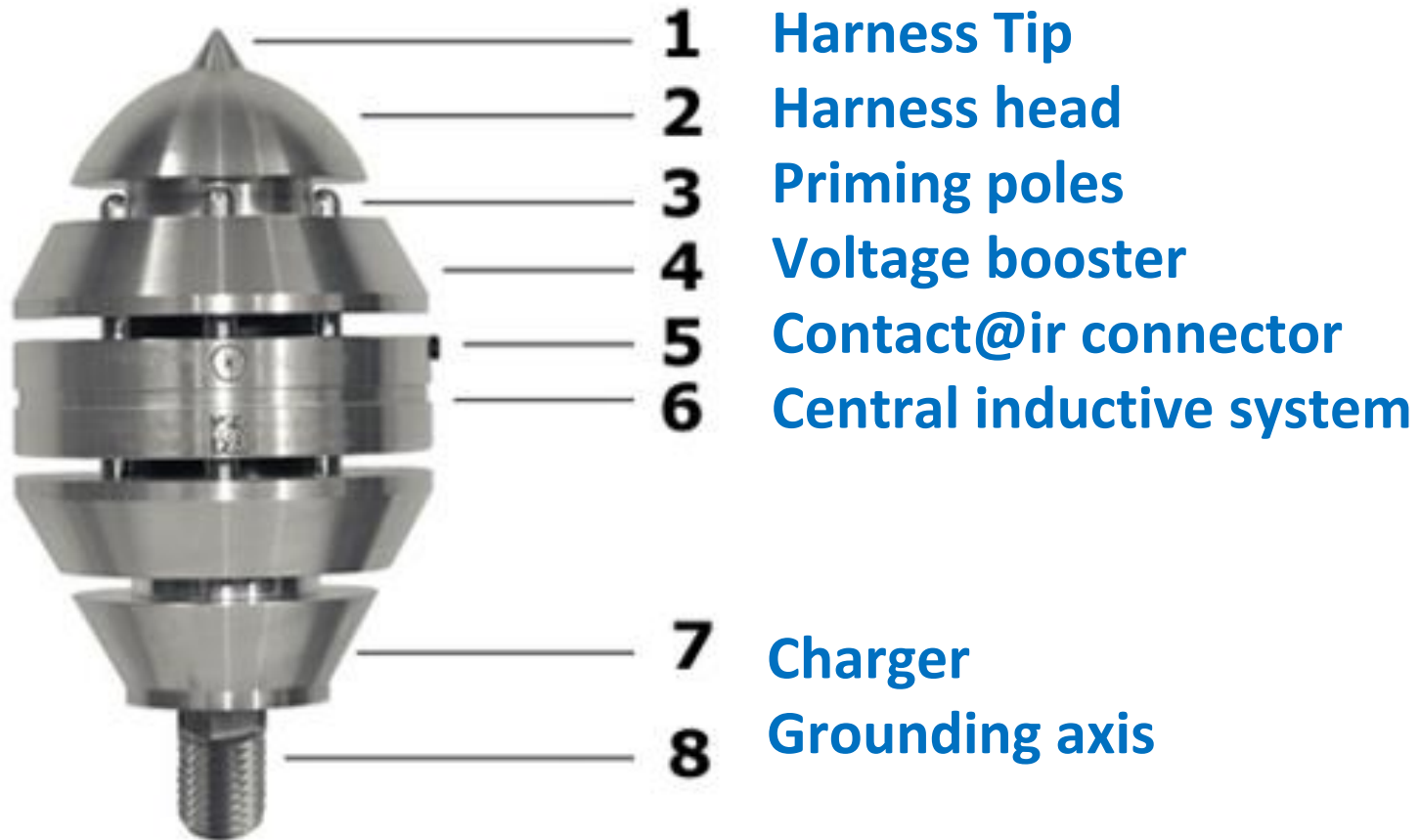


Topaz



Emerald

Paraton@ir® : nomenclature



Paraton@ir® : How it's work



PHASE 1

1 - Paraton@ir® accumulates charge:

The element called « Charger » is designed to accumulate natural ions in the « Central Inductive System » (patented).

This accumulation happens as quickly and in the same proportions as the increase in power of the ambient electric field generated by an upward tracer.



PHASE 2

2 - Paraton@ir® creates an electric field on a tremendous scale:

At the time, thanks to the « Central Inductive System » and the « Voltage Boosters », Paraton@ir® creates a huge electrical field the charge of which is opposes to that of the natural electric field in presence and stimulates the « Harness head ». According to their quantity, the « Priming poles » multiply the efficiency of the priming.



PHASE 3

3- Harnessing and conduction by Paraton@ir® :

The priming of Paraton@ir® system attracts the upward tracer and creates the « lightning strike » conditions. Then the « Harness tip » leads the lightning current through its axis toward the ground conductors.

Paraton@ir®: Performances



Paraton@ir® 10

$\Delta t: 10 \mu s$

		Niveaux de protection			
		I	II	III	IV
Δh (m)	2	8	11	13	15
	3	12	16	19	24
	4	17	26	26	34
	5	21	29	32	43
	10	23	36	37	48
	20	24	40	41	55
	60	30	48	53	64



Paraton@ir® 25

$\Delta t: 25 \mu s$

		Niveaux de protection			
		I	II	III	IV
Δh (m)	2	17	19	23	26
	3	25	29	34	39
	4	34	39	46	52
	5	42	49	57	65
	10	44	51	61	69
	20	45	52	63	75
	60	45	52	65	79



Paraton@ir® 45

$\Delta t: 45 \mu s$

		Niveaux de protection			
		I	II	III	IV
Δh (m)	2	25	28	32	36
	3	38	41	48	53
	4	51	57	65	72
	5	62	71	81	89
	10	63	72	83	92
	20	65	74	86	97
	60	66	75	90	105



Paraton@ir® 60

$\Delta t: 60 \mu s$

		Niveaux de protection			
		I	II	III	IV
Δh (m)	2	32	34	40	44
	3	48	52	59	65
	4	64	69	78	87
	5	79	86	97	107
	10	79	88	99	109
	20	80	89	102	113
	60	80	90	105	120

E-maintenance Solutions



- Identification
- Diagnostics
- In Real time Warning*
- Lightning Intensity Level*

* Option available with Rout@ir only

Wireless communication solution :

Contact@ir® is a radio transmitter that works with solar energy and performs functional tests on the product with which it is associated.

Its low power consumption allows it to perform a test every 100 seconds .



Characteristics :

- Free frequency Radio technology (until 100m depending environment)
- Powered by a photovoltaic cell which provides an effective system load even in low light conditions and ensures communication 24 / 24.
- Dimensions and weight low
- Can be installed / uninstalled at any time, reliable fixation fastenings
- Total autonomy

Local diagnostic



Dongl@ir®



Dongl@ir = Local reception

- Identification
- Local Diagnostic

Until 100m depending on the receiver, its position and environment.



Local diagnostic with Dongl@ir®

What information will I get with Dongl@ir®

Identification

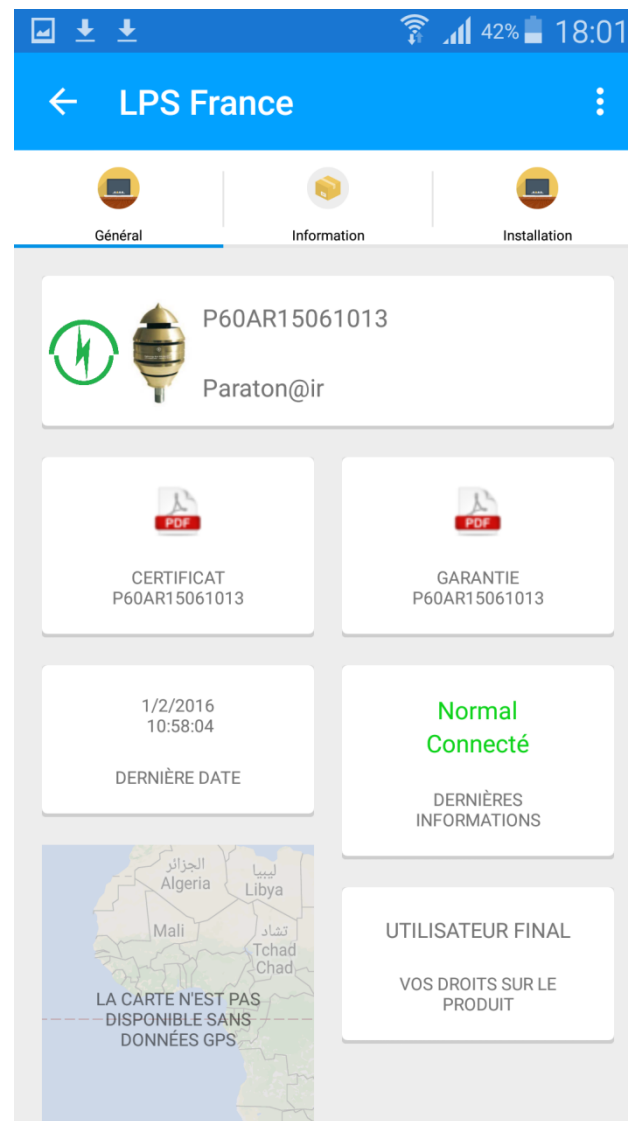
- The serial number of Paraton@ir®
- The type and the color of Paraton@ir®,
- The serial number of transmitter

History

- Chronology of previous diagnosis,
- Results of this diagnosis,
- Notes of previous users.

Diagnostic

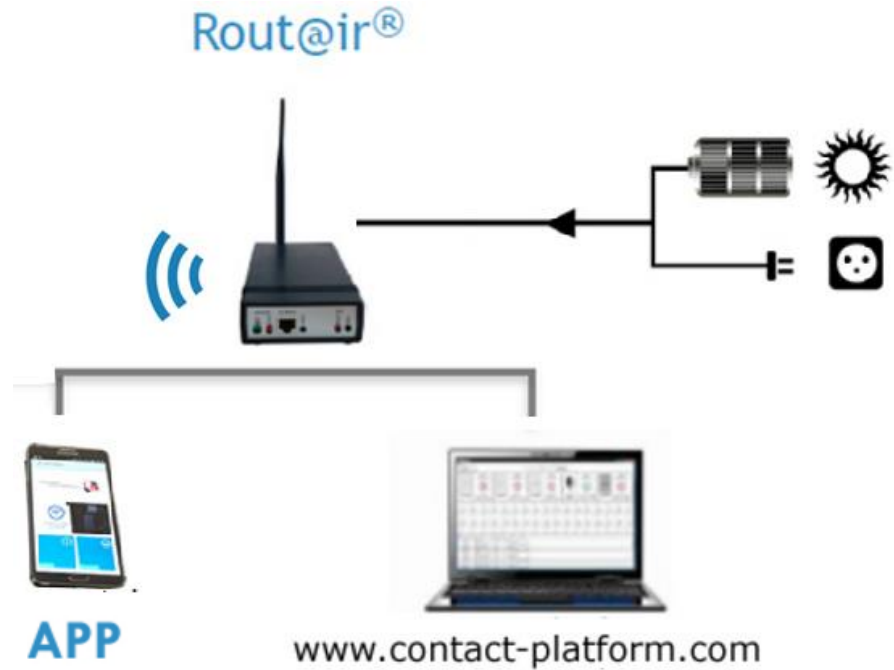
- Communication quality,
- Product integrity
- Product operation



The screenshot displays the LPS France mobile application interface. At the top, the status bar shows signal strength, Wi-Fi, 42% battery, and the time 18:01. The app header is blue with a back arrow, the text 'LPS France', and a menu icon. Below the header are three tabs: 'Général' (selected), 'Information', and 'Installation'. The main content area is divided into several sections:

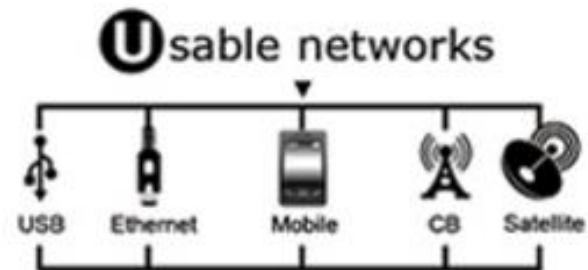
- Product Identification:** A lightning bolt icon, a Paraton@ir device image, the serial number 'P60AR15061013', and the product name 'Paraton@ir'.
- Documents:** Two PDF icons labeled 'CERTIFICAT P60AR15061013' and 'GARANTIE P60AR15061013'.
- History:** A date and time '1/2/2016 10:58:04' with the label 'DERNIÈRE DATE'.
- Status:** A green box with the text 'Normal Connecté' and 'DERNIÈRES INFORMATIONS'.
- Map:** A map of North Africa showing Algeria, Libya, Mali, and Tchad. A message reads 'LA CARTE N'EST PAS DISPONIBLE SANS DONNÉES GPS'.
- User Information:** A box with the text 'UTILISATEUR FINAL' and 'VOS DROITS SUR LE PRODUIT'.

Remote monitoring



Rout@ir = Remote reception

- Identification
- Remote Diagnostic
- In real time warning
- Lightning intensity level



Rout@ir® : Remote monitoring



Rout@ir® sends Paraton@ir® data on internet, this enables control of remote equipment.

Moreover, If your Paraton@ir® is struck by lightning, you instantly receive a "Lightning Strike Alert" by Email.



Browser address bar: https://contact-platform.com/devices_my_devices.html?fr

Anthony User

- Profile
- Dashboard
- Add a product
- My products infos
- Search
- Manage Rights

YOUR PARATON@IR		YOUR COMPT@IR	YOUR ALERT@IR	CONTACTAIR READY	CONTACTAIR	OTHER DEVICES
Image	Serial number	Information		Actions	Certificate	Warranty
	P60AR15061013	Last Data 07-05-2016 normal behaviour physically connected				
	P60RY15061029		DECLARE AN INSTALLATION			

What information will I get with Rout@ir®

Identification

- The serial number of Paraton@ir®
- The type and the color of Paraton@ir®,
- The serial number of transmitter

History

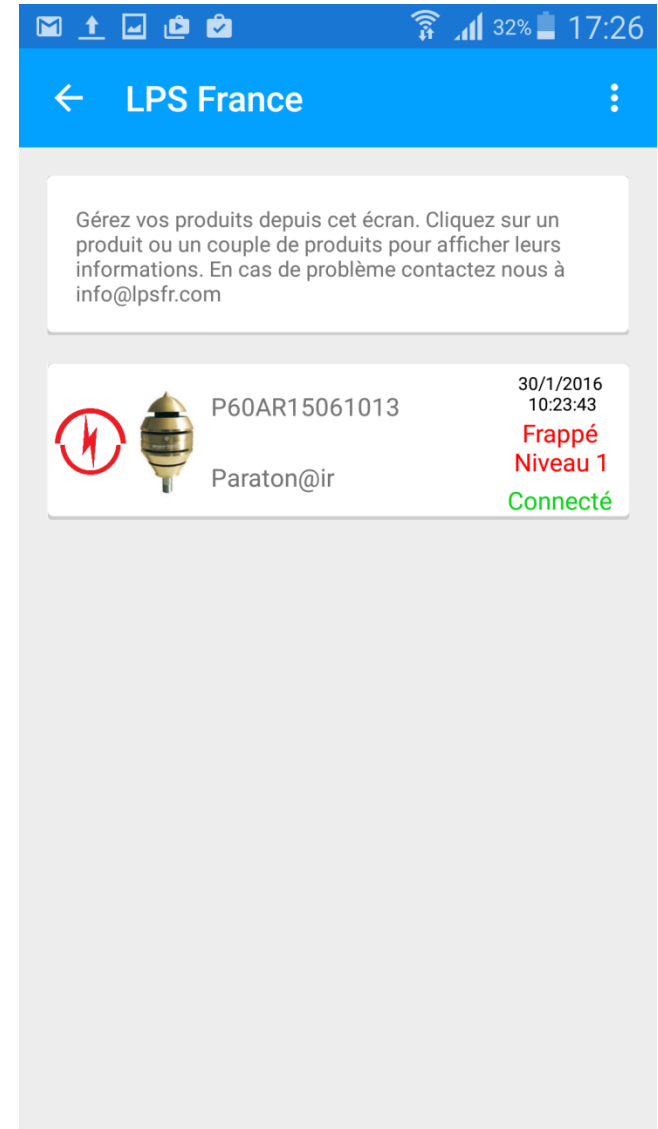
- Chronology of previous diagnosis,
- Results of this diagnosis,
- Notes of previous users.

Remote Diagnostic

- Web Diagnostic : www.contact-platform.com
- In real time consultation with smartphone on LPS France Android app.

In real time warning

- Email Alert and Push notification
- Lightning Intensity level
- Technical support & maintenance procedures





LPS France : **Lightning Strike Alert**



postmaster@contact-air.com

À moi ▾



The Paraton@ir 60 product P60AR15061013 has sent the following data :

Date of the lightning strike : 06/02/2016

Time of the lightning strike (GMT) : 09:38AM

Intensity of the lightning strike : Level 1



In view of the lightning strike intensity, a complete checking must be carried out urgently.

Please contact your LPS France licensed agent to perform this maintenance operation.

We remind you that this operation is compulsory to ensure the efficiency of your protection against lightning and preserve your warranties.



Lightning Protection
Systems France
Qualité française
Efficacité
internationale



Compt@ir® : E-Lightning strike counter



Compt@ir® for Remote monitoring

The lightning strike is detected, a normative verification should be carried out according to Articles 8.2 to 8.5 of the NFC 17-102.

The lightning strike counter Compt@ir® are fitted with connector to receive the Contact@ir® system.

Charateristics

- No power for its operation
- Fit with all kind of down conductors
- Increment lightning strikes
- 6 digit display
- No reset
- Waterproof (IP65)



Compt@ir® : installation

"... A lightning strike counter, must be installed on the most direct and down conductor should be preferably located just above the control joint. " NFC 17-102 - September 2011 (Article 5.3.8 .)

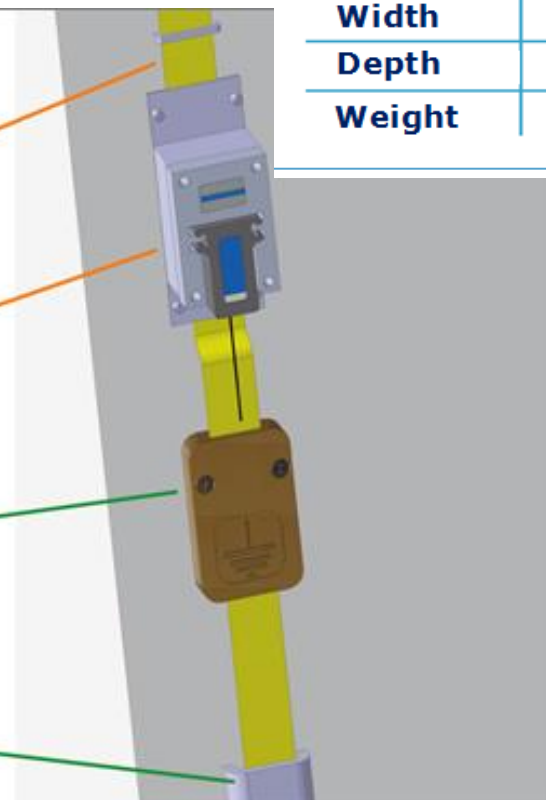
Height	14.50 cm
Width	5.50 cm
Depth	5.50 cm
Weight	0.285 kg

22041 :
Download conductor

43603 :
Lightning Strike Counter

43604 :
Cut-off control joint

43605 :
Protective sleeve



Alert@ir® XT : material



Alert@ir® XT
Alerte Foudre - prévention et maintenance



Contact@ir®

You already have a lightning protection system.

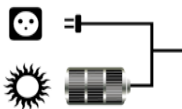
Use Alert@ir XT, can be install on every down-conductor.

In real time warning

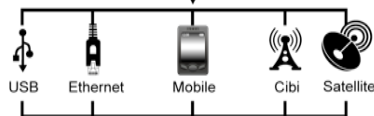
- Lightning strike Alert by Email
- Lightning Intensity level



Rout@ir®



Réseaux utilisables



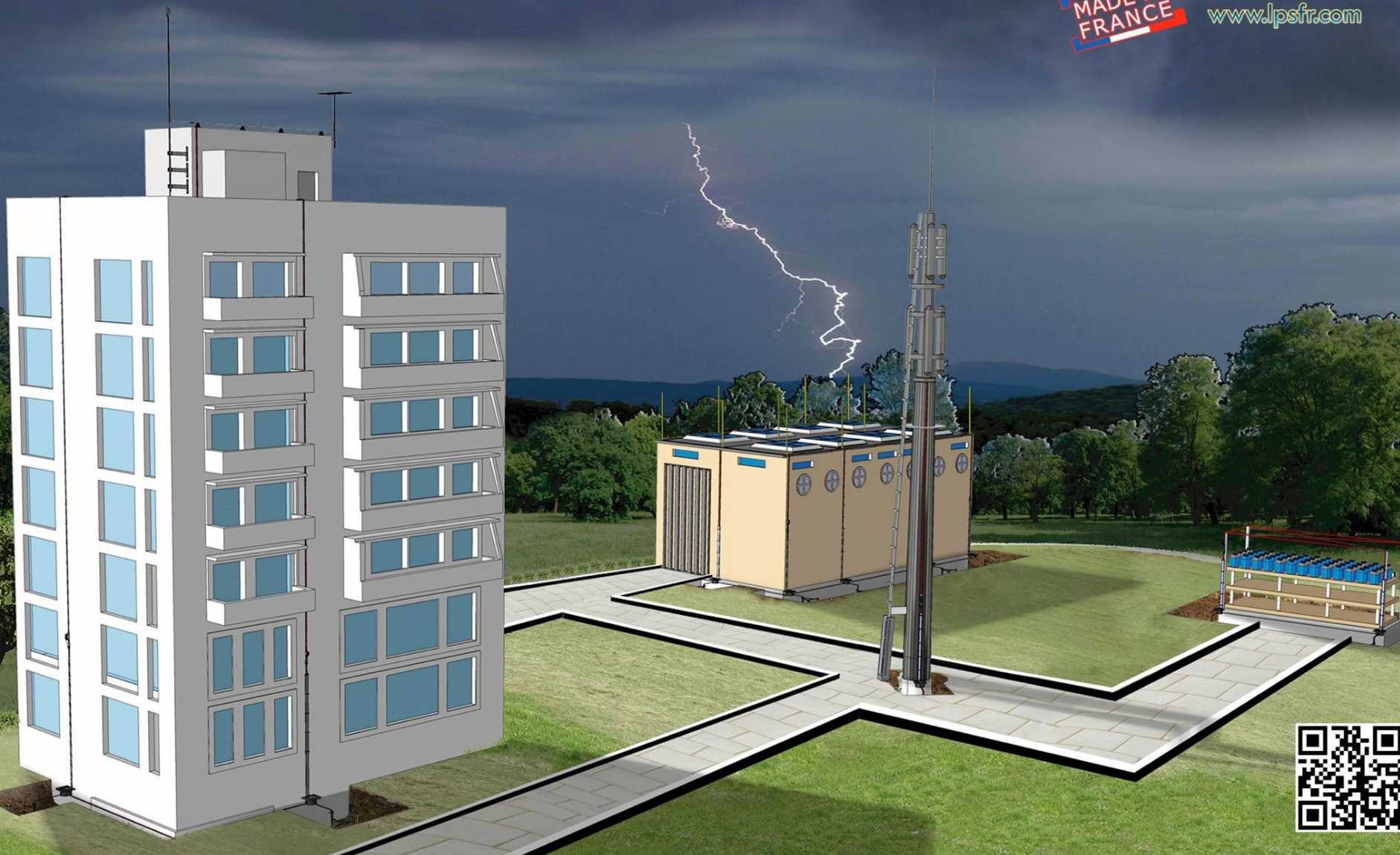
Alerte Foudre

Our solutions to protect your world



MADE IN
FRANCE

www.lpsfr.com





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[LPS France VIDEO Here](#)