French Quality World Wide Efficiency



Study - Prevention - Protection - Lightning





Direct lightning strike -

Known from time immemorial, lightning presents many dangers for properties and living beings. The meeting of a downward tracer and an upward tracer coming from a natural priming is called direct lightning strike.

To protect oneself from direct lightning strikes, it is necessary to set up an Outside Protection against Lightning Installation (O.P.L.I) including a lightning strike sensor: the lightning rod.

Our Early Streamer Emitter lightning rods

The Early Streamer Emitter lightning rod (E.S.E.) Paraton@ir® is inspired by the last advances of our knowledge about the effects of lightning, electromagnetism, very high-voltage, fluid mechanics...

The natural priming principle is multiplied by our Paraton@ir® system thanks to its ionization device independently of any energy source.

The simplicity of its design and operation, the quality of its manufacturing and assembly enable us to ensure a lifetime warranty for each Paraton@ir® provided that our maintenance requirements are respected.



8 available colors

Colour is an aesthetic option and has no effect on the operating of Paraton@ir®.

Its unique and patented system does not contain any fragile or unreliable electronic component or mechanical equipment.

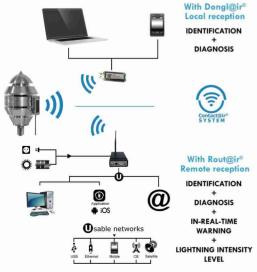
Control, prevention and maintenance -

An outside protection against lightning with a lightning rod must be checked every year and after each lightning strike to ensure its good working order. .Source: NFC 17-102 - September 2011.

A Contact@ir® emitter can be optionally fitted on each Paraton@ir®. It then permanently communicates the Paraton@ir® working order status and its communication liability.

Used with the Rout@ir®,option, it transmits an in-real-time warning when a lightning strikes is picked up by the **Paraton@ir**®. **Contact@ir**® allows to initiate the check of the O.P.L.I. and takes part in risk prevention.





Contact@ir[®] is a self-sustaining and wireless system of products identification and diagnosis and of lightning strike communication.



The lightning strike counter is universal and can be set up on any types of existing conductors.

Watertight, reliable and robust, the lightning strike counter LPS France works without any power supply and records positive or negative lightning strikes when they come through.

Each counter is supplied as standard with a plug to connect the Contact@ir®, system, which enables the diagnosis of the counter, as well as the in-real time forwarding and recording of information.





French Quality World Wide Efficiency

Study - Prevention - Protection - Lightning

Our commitments

By your side, LPS France commits itself to the quality of its whole range:

An exclusive manufacture in our workshop in France.

Patented technologies.

Certified lab tested products.

Reliability and robustness proven under extreme conditions.

Laser marking for an optimal follow-up.

A 100% recyclable range of lightning rods.

A responsible commitment to a manufacturer's lifetime warranty** (15 years minimum).

Control, maintenance and prevention eased thanks to the **Contact@ir**® system.

Products in compliance with NFC 17-102, UNE 21-186, EN 50164-1, EN 62305 standards.

*: Lifetime warranty on conditions

-Your protection

To protect you, Lightning Protection Systems France offers a high quality set of "made in France" solutions and services, the efficiency of which is internationally recognized.

LPS France is your expert for the protection of structures and their network facilities (electricity, communication) against lightning.

LPS France designs, manufactures and sets up protection against lightning installations for all your projects.

LPS France offers you turnkey protection against lightning solutions (lightning rods, surge arrestors), thanks to its worldwide network of exclusively licensed distributors and installers.













Study - Prevention - Protection - Lightnin





The Paraton@ir® system

Years of experiments and numerous tests in laboratory and in real-world lightning conditions were necessary to develop this Early Streamer Emitter lightning rod.

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

Called Paraton@ir®, in reference to french langage and to its communication abilities, our product is manufactured with utmost care in our workshop in France.

Operation

Paraton@ir® creates the optimal conditions to generate a supernatural upward tracer before another natural upward tracer intercepts the surrounding lightning.

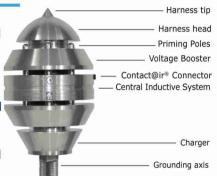
The action develops in three steps:



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.

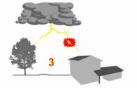




Paraton@ir® creates an electric field on a tremedous scale:

At the same time, thanks to the "Central Inductive System" and the "Voltage Boosters", Paraton@ir® creates a huge electrical field the charge of which is opposed 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.



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.

Benefits





In-real-time warnings*

Simple implementation

Low realization budget

Limited maintenance costs

Eight colours available* Lifetime warranty

*: optional



	Paraton@ir®	Single point ligntning rod	Meshed Cage	Tensioned Cables
Portection area	00000	00000	999	999
Portection of open areas	0000	0000	9999	999
Study	99999	999	8 8 8 8 8	999
Implementation	99999	00000	00000	999
Qualification required for implementation	999	99999	0000	0000
Aesthetic (Architecture integration)	00000		0000	0000
Realization budget	0000	00000	0000	999
Maintenance costs	0000	0000	0000	000
Standards	NFC 17-102 + IEC 62305	IEC 62305	IEC 62305	IEC 62305
Appropriate structures	Any structure and its environment	Small dimension structure : towers, antennas	Structure containing computer systems	Open storage area







Study - Prevention - Protection - Lightning

Tests and validations



To know for a fact that we provide you with reliable, efficient and standard-compliant protection against lightning systems, **LPS France** products are systematically tested in laboratory and

in the field to validate their operation, their efficiency and their sustainability before they are launched on the market.

Our products are developed in our own research laboratory. Validation tests were carried out with a higher requirement level than standards in recognized laboratories.

Those tests and validations come on top of studies and observations that were made in situ and of returns of experience enhanced by our remote communication system.

Our laboratory and in the field experiments enable us to always be in the forefront of Reseach and Development.



Protection radius -

The protection radius of an Early Streamer Emitter lightning rod is related to its height (h) in proportion to the surface area to protect, its efficiency and the selected protection level.

$$R_{\rm p}(h) = \sqrt{2rh - h^2 + \Delta h(2r + \Delta h)}$$
 when $h \ge 5m$

Its calculation is made as follows: according to NFC 17-102 standard – September 2011

$$R_p(h) = h \times R_p(5) / 5$$
 when $2m \le h < 5m$

 $R_{p}(h)(m)$ Rp(h)(m) stands for the protection radius at a given height h;

h(m) stands for the height of the ESE end in a horizontal

 $\Delta h(m)$

r (m)

20m for the protection level I;
20m for the protection level II
30m for the protection level II
45m for the protection level III
60m for the protection level IV

plane to the farthest point of the element to protect.

The experience in the field shows that Δ is equal to the efficiency obtained during the ESE evaluation tests.



The protection level is set according to numerous parameters including loss of life and economic risks, the average local lightning striking, the impact on environment, etc... To favour an ideal matching to the layout of the different premises to protect, **Paraton@ir**[®] is available with 4 power levels.



- Implementation

Paraton@ir[®] Early Streamer Emitter lightning rods are part and parcel of a complete protection against lightning system, including also downward conductors, grounding, etc...

Before its implementation, a protection against lightning system must be the object of an in-depth study. To provide an optimal security, this system must also be installed in compliance with the standards in force and the manufacturer's instructions.

To benefit from your product warranty, your protection against lightning system must imperatively follow those study and installation codes.

Our licensed partners (distributors, installers) are proficient in ensuring you the necessary conditions to the preservation of your warranty.









Study - Prevention - Protection - Lightnine

www.lpsfr.com

Paraton@ir® 10

Δt: 10 μs

Net weight 1,800Kg

Packaging: 260x180x110 mm



* Contact@ir system needed see our Terms and Conditions









Antique





Natural







Emerald

Colour has no influence on operation

Protection radius

Δh

Protection radius in meters (m)

Protection levels

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

In compliance with NFC 17-102 standard - Interpretation 007 April 2011. Datas validated by laboratory tests.





Communication option

- REMINDER -An outside protection against lightning with a lightning rod must be checked every year and after each lightning strike

to ensure its good working order. Source NFC 17-102 - September 2011.



To comply with this requirement:

A Contact@ir® emitter can be optionally fitted at any time on Paraton@ir®10 as on any lightning rod of the range.

Then the Contact@ir® emitter permanently communicates the operating status as well as its communication reliability.

Used with the Rout@ir®option, it transmits an in-real-time warning when a lightning strike is picked up by Paraton@ir® and the lightning strike level.



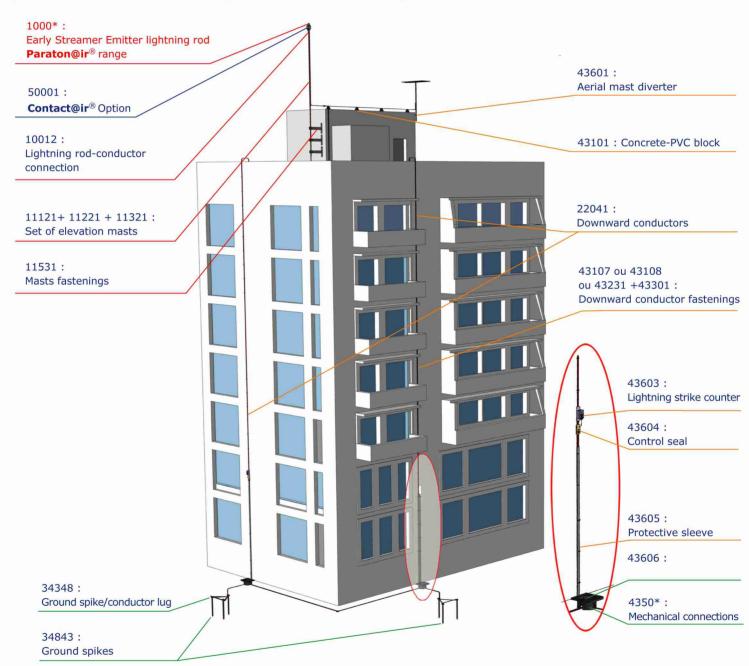






Example of intallation.

The layout below proposes an example of protection against lightning system installation, with our products and accessories compliant with the standards in force (NFC 17-102, IEC 62-305...).



The composition and intallation of a protection against lightning system depends on multiple factors including in particular the characteristics of building(s) to be protected and their environment.

To meet the requirements of the NFC 17-102 standard and provide you with an efficient protection, each installation must be the object of a preliminary study.









Study - Prevention - Protection - Lightning

www.lpsfr.com

· Paraton@ir® 25

Δt: 25 μs

Net weight 1,600Kg

Packaging: 260x180x110 mm



★ Contact@ir system needed see our Terms and Conditions









Antique



Natural





Opal

Emerald

Colour has no influence on operation

Protection radius



Protection radius in meters (m)

Protection levels

		I	II	III	IV
	2	17	19	23	26
	3	25	29	34	39
h	4	34	39	46	52
n) <	5	42	49	57	65
1	10	44	51	61	69
	20	45	52	63	75
	60	45	52	65	79

In compliance with NFC 17-102 standard – Interpretation 007 April 2011. Datas validated by laboratory tests.





Communication option

- REMINDER

An outside protection against lightning with a lightning rod must be checked every year and after each lightning strike to ensure its good working order. Source NFC 17-102 - September 2011.



To comply with this requirement:

A Contact@ir® emitter can be optionally fitted at any time on Paraton@ir®25 as on any lightning rod of the range.

Then the Contact@ir® emitter permanently communicates the operating status as well as its communication reliability.

Used with the Rout@ir®option, it transmits an in-real-time warning when a lightning strike is picked up by Paraton@ir® and the lightning strike level.



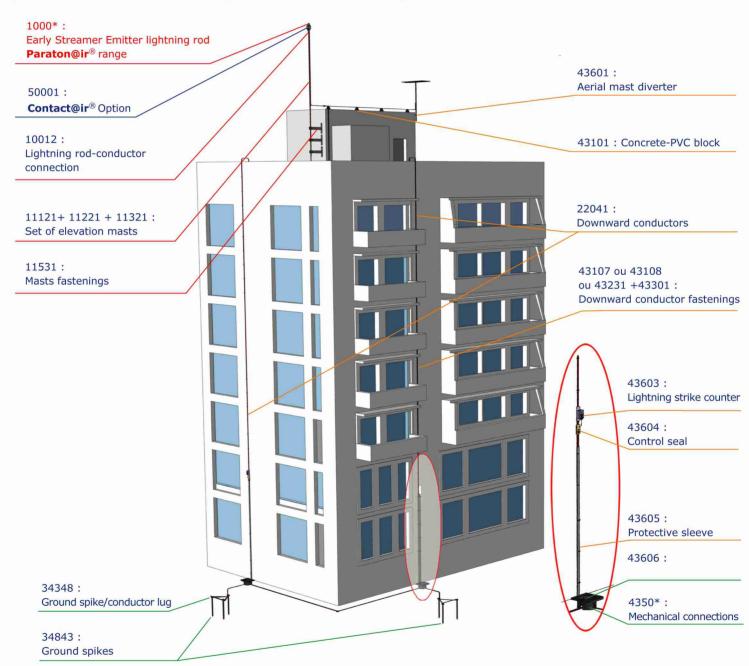






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The composition and intallation of a protection against lightning system depends on multiple factors including in particular the characteristics of building(s) to be protected and their environment.

To meet the requirements of the NFC 17-102 standard and provide you with an efficient protection, each installation must be the object of a preliminary study.









Study - Prevention - Protection - Lightning

Paraton@ir® 45

Δt: 45 μs

Net weight 1,610Kg

Packaging: 260x180x110 mm



★ Contact@ir system needed see our Terms and Conditions









е

Ruby

Onyx











Opal

Topaz

Emerald

Colour has no influence on operation

Protection radius

Ah Protection radius

Protection radius in meters (m)

Protection levels

		I	II	III	IV
	2	25	28	32	36
∆h (m) ◀	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

In compliance with NFC 17-102 standard – Interpretation 007 April 2011. Datas validated by laboratory tests.





Communication option

- REMINDER

An outside protection against lightning with a lightning rod must be checked every year and after each lightning strike to ensure its good working order. Source NFC 17-102 – September 2011.



To comply with this requirement:

A **Contact@ir**® emitter can be optionally fitted at any time on **Paraton@ir**®**45** as on any lightning rod of the range.

Then the **Contact@ir**® emitter permanently communicates the operating status as well as its communication reliability.

Used with the **Rout@ir**®option, it transmits an in-real-time warning when a lightning strike is picked up by **Paraton@ir**® and the lightning strike level.



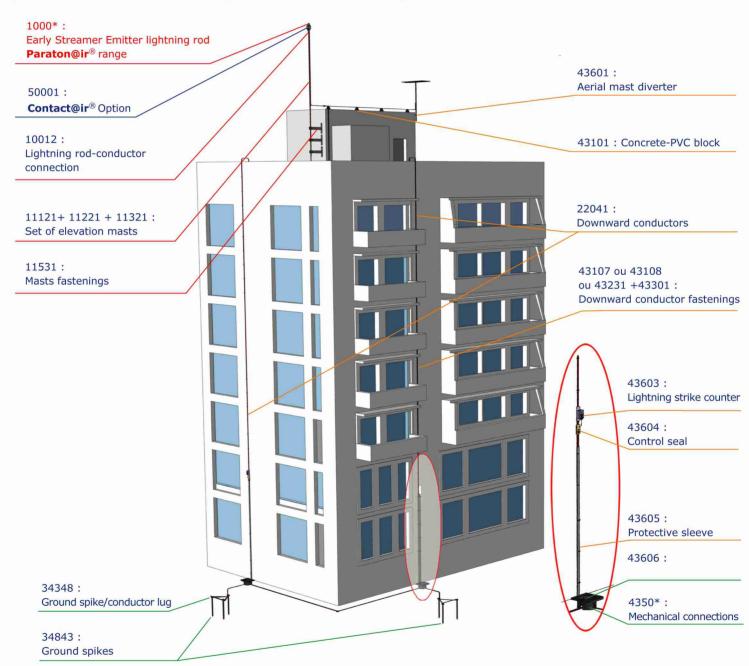






Example of intallation.

The layout below proposes an example of protection against lightning system installation, with our products and accessories compliant with the standards in force (NFC 17-102, IEC 62-305...).



The composition and intallation of a protection against lightning system depends on multiple factors including in particular the characteristics of building(s) to be protected and their environment.

To meet the requirements of the NFC 17-102 standard and provide you with an efficient protection, each installation must be the object of a preliminary study.









Study - Prevention - Protection - Lightning

Paraton@ir® 60

Δt: 60 μs

Net weight 1,625Kg

Packaging: 260x180x110 mm



★ Contact@ir system needed see our Terms and Conditions









Antique

Natural



*





Opal

Topaz

Emerald

Colour has no influence on operation

Protection radius

Ah Protection radius

Protection radius in meters (m)

Protection levels I II III 22 24 40

		I	II	111	IV
	2	32	34 40		44
	3	48	52	59	65
Δh	4	64	69	78	87
(m) ◀	5	79	86	97	107
	10	79	88	99	109
	20	80	89	102	113
	60	80	90	105	120

In compliance with NFC 17-102 standard – Interpretation 007 April 2011. Datas validated by laboratory tests.





Communication option

- REMINDER

An outside protection against lightning with a lightning rod must be checked every year and after each lightning strike to ensure its good working order. Source NFC 17-102 – September 2011.



To comply with this requirement:

A $Contact@ir^{@}$ emitter can be optionally fitted at any time on $Paraton@ir^{@}60$ as on any lightning rod of the range.

Then the $Contact@ir^{\otimes}$ emitter permanently communicates the operating status as well as its communication reliability.

Used with the **Rout@ir**®option, it transmits an in-real-time warning when a lightning strike is picked up by **Paraton@ir**® and the lightning strike level.



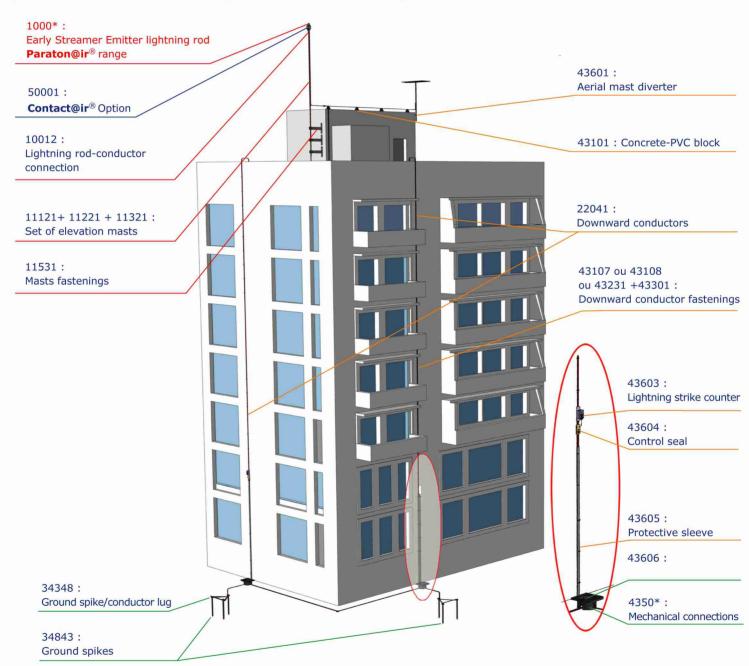






Example of intallation.

The layout below proposes an example of protection against lightning system installation, with our products and accessories compliant with the standards in force (NFC 17-102, IEC 62-305...).



The composition and intallation of a protection against lightning system depends on multiple factors including in particular the characteristics of building(s) to be protected and their environment.

To meet the requirements of the NFC 17-102 standard and provide you with an efficient protection, each installation must be the object of a preliminary study.











The lightning strike counter -

The lightning strike counter **Compt@ir**® consists of a 6 digits display. Each lightning strike is recorded when it comes through by incrementing one unit (the rightmost number).

Watertight (IP65), robust and reliable, it operates without any power supply and records positive or negative lightning strikes.

The lightning strike counter displays the total number of lightning strikes having struck the Outside Protection against Lightning Installation (OPLI).

It is necessary to regularly watch over the display for a good follow-up of the installation. The lightning strike counter is essential for the good maintenance of the OPLI (cf. NFC 17-102 : a checking shall be done after each lightning strike).

This regular monitoring doesn't require a travel with Contact@ir+Rout@ir option. On top of that, you will be warned in real time in case of lightning strike event.)

It can be set up and works on any type of existing downward conductor (flat, round, ...) thanks to its universal fastenings. **Compt@ir®** lightning strike counters are compliant with the standards in force (NFC 17-102, NF EN 50164-6).

Contact@ir®

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





Installation



22041 : Downward conductor

43603:

Lightning strike counter

43604:

Control seal

43605:

Protective sleeven

"If the intallation is equipped with a lightning strike counter, it is appropriate for the latter to be installed on the most direct downward conductor and to be preferably located right above the control seal." NFC 17-102 – September 2011, (art. 5.3.8).









- REMINDER.

An outside protection against lightning with a lightning rod must be checked every year and after each lightning strike to ensure its good working order. Source NFC 17-102 – September 2011.

Remote communication option -



Compt@ir® lightning strike counters are supplied as standard with a plug to connect the **Contact@ir**® system.

A **Contact@ir**® emitter can be optionnally fitted on each **Compt@ir**® lightning strike counter.

Then the **Contact@ir**® emitter permanently communicates the **Contact@ir**® lightning strike counter operating status as well as its communication reliability. This communication occurs without any physical link.

Servicing and maintenance of your installation.



Once the lightning strike detected, a normative check will have to be performed in accordance with the articles 8.2 to 8.5 of the NFC 17-102 standard.

This check aims at ensuring the good order of the lightning protection installation and doing the necessary repairs of the installation.

Thanks to **Compt@ir**® and to the "lightning strike" warning, the lightning protection installation is being permanently watched over.

Whatever your installation -

A lightning protection has got an important service life. Thus, any installation requires a follow-up, checkings and regular maintenance to ensure its efficiency.

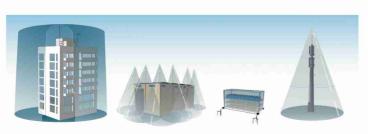
Contact@ir® system is a LPS France exclusive

If used with the **Rout@ir®** option, it enables you:

- To make a remote diagnosis of your installation at any time,
- To receive an in-real-time warning when your installation is thunderstruck,
- To know what was the intensity of the lightning strike, and thus know what type of check of your installation has to be done if need be.

The lightning strike counter **Compt@ir**® is universal and can easely be added to your lightning protection installation, whatever its type, its trademark and its age.

Once associated with a $Rout@ir^{\otimes}$, it enables you to benefit from the $Contact@ir^{\otimes}$ system advantages without modifying your installation.





✓ Warranties preserved

✓ Maintenance simplified

Security ensured









Contact@ir® System



Study - Prevention - Protection - Lightning

•

Wireless communication solution



A **Contact@ir**® emitter can be optionally fitted on each **Contact@ir Ready** product (**Paraton@ir**® range and **Compt@ir**® lightning strike counters).



If used with the **Rout@ir**® option, it transmits an in-real-time warning when a lightning strike is picked up by the **Contact@ir Ready**® product and records it.

Efficient, reliable and easy-to-use, **Contact@ir**® system facilitates the control and maintenance of your lightning protection installation. **Contact@ir**® system favours lightning risk prevention.







REMINDER

An outside protection against lightning with a lightning rod must be checked every year and after each lightning strike to ensure its good working order. Source NFC 17-102 – September 2011.

The emitter -

Contact@ir® emitter is supplied by a photovoltaic cell that ensures its autonomy.

The technology of this cell enables to get the system charged even in case of low luminosity and to ensure a 24-hour communication.

Communication is possible with a broadcast range from 30 up to 300m depending on the receiver, its position and environment.



Contact@ir® emitter can be fitted on the Contact@ir Ready® product during the assembly or at any time during the lifetime of the installation This operation is simple, rapid, easy and has no effect on the protection efficiency.

For a perfect aesthetic, **Paraton@ir®** and **Contact@ir®** are available in eight colors.

Once the **Contact@ir Ready**® product ((**Paraton@ir**® or **Compt@ir**®) installed with its emitter plugged in, the product and its emitter must be registered on the server www.contact-platform.com.

-Reception of information

The content of the information you receive and the type of receipt (local or remote) depend on the choice of receiver. There is two existing receivers: **Dongl@ir**[®] and **Rout@ir**[®].

EQUIPEMENT				INFORMATION				
EMITTER	RECEIVER	RECEPTION(1)	READING		IDENTIFICATION (2)	DIAGNOSIS(3)	LIGHTNING WARNING (4)	INTENSITY
	LOCAL	PC OR MAC	Contact@ir® SOFT SOFTWARE	<u>•</u>	<u>•</u>	<u>:</u>	<u>•</u>	
		PC OR MAC ANDROID MOBILE OR PAD	Contact@ir® SOFT APP					
		REMOTE	ANY TYPE OF EQUIPMENT WITH AN INTERNET CONNECTION	SERVER www.contact-plateform	<u> </u>	<u>©</u>	<u>•</u>	\odot

- (1): For a local reception, an on-site trip is neccessary to collect the datas, Rout@ir enables a remote reception and consultation of datas thanks to an internet connection.
- (2): Shows the serial number, the type and the colour of the lightning rod or the serial number of the lightning strike counter, as well as the serial number of the emitter and potential datas entered by the user about the identified two linked products.
- (3): Indicates whether the Contact@ir Ready® product and the identified emitter are in good working order or not.
- (4): Records the lightning strikes received by the identified **Contact@ir Ready®** product, creates a user accessible history, and sends him an in-real-time warning email.

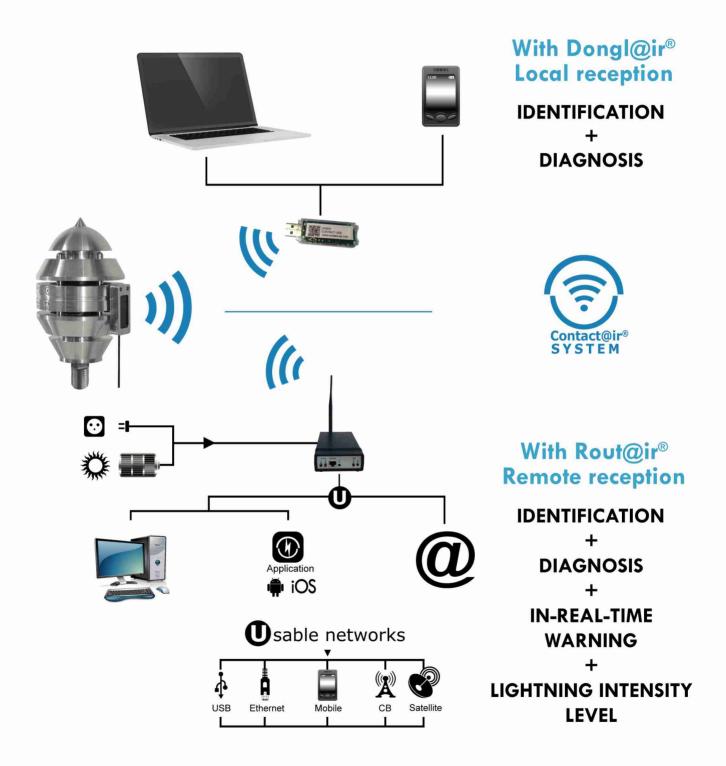






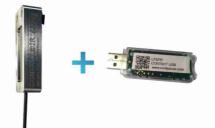
Contact@ir® System

Study - Prevention - Protection - Lightning





Contact@ir® stem with Dongl@ir® System





Study - Prevention - Protection - Lightning

www.lpsfr.com

Maintenance and servicina requirements to be met

An outside protection against lightning with a lightning rod must be checked every year and after each lightning strike to ensure its good working order. Source NFC 17-102 - September 2011, (art. 8.2).



Maintenance and servicing of your lightning protection installation are also necessary to preserve your manufacturer's and installer's warranties.

To ensure a total security, you must be certain of its efficiency at any time.

Contact@ir® system is an exclusive solution proposed by LPS France to meet normative requirements, preserve your warranties and ensure your security throughout the lifetime of your lightning protection installation.ion contre la foudre.

Why use Dongl@ir®?

Contact@ir® system, if used with Dongl@ir® receiver, enables you to check the good working order of your product.

The transmission of datas occurs by radio waves, without any physical link between the **Contact@ir**® emitter and the **Dongl@ir**® receiver.

In this way, **Dongl@ir**® facilitates and makes safer the diagnosis of a product often difficult to access, the intervening person not being constained any more to get into a risky situation to reach it.

Dongl@ir® is a specific mean of diagnosis. It has to be used nearby the product (80 meters maximum).

Within a few seconds, your product is identified and the result of its diagnosis appears on your sceen. You then immediately know if an intervention is necessary on your installation or not.



- What are the necessary equipments?



The Contact@ir® emitter Has to be connected to the Contact@ir Ready® product the diagnosis of which you wish to obtain, That is:



Paraton@ir® range



The Contact@ir® emitter can be fitted on the Contact@ir Ready® product during the assembly or at any time during the life time of the installation.

A single **Dongl@ir**® enables to carry out the

dentification and the diagnosis of all the Contact@ir

Ready® products the rights of which you hold.

The Compt@ir® range



Donal@ir®

Is provided in the form of an USB key and is plugged:



In your pad or Androïd mobile with a microUSB adapter.

In that case, the information will be read on the application Contact@ir App®.



In one of your PC or MAC USB port.In that case, the information will be read on software Contact@ir Soft®.





Contact@ir® System with Dongl@ir®



Study - Prevention - Protection - Lightning

When carry out a diagnosis with Dongl@ir®?

With **Dongl@ir**®, you can carry out a diagnosis when you are located near your installation to check its reliability.

The circumstances requiring the checking of your lightning protection installation are listed in the NFC 17-102 standard text in the article 8.2 :

- Periodically in order to be able to anticipate and forestall the natural wear of your installation,
- After a thunderstorm or any other climatic phenomenon potentially harmful for your lightning protection installation,
- Each time the protected structure is modified or repaired.



A clearly defined use

Which information shall I obtain with Dongl@ir®?

Whether you use **Contact@ir Soft**® or **Contact@ir App**®, you will obtain the following information :

Identification:

- The Compt@ir® or Paraton@ir® serial number,
- The type and colour of the Paraton@ir®,
- The emitter serial number,
- Potential notes previously entered.

| Comparing | Comp

Relevant and clear information

Diagnostic:

- Quality of communication,
- Product integrity,
- Product working order

History:

- Chronology of previous diagnosis by product,
- Diagnosis results,
- Previous users' comments.

All information collected during the diagnostics are automatically dated, recorded and chronologically classified.

This information is necessary to draw up documents relative to the carrying out, the checking and the maintenance of your installation.

Those documents are imposed by the NFC 17-102 standard (art. 8.1 to 8.7). To learn more, connect to www.lpsfr.com.

-What do I do if the diagnosis reveals a critical information ?



✓ Warranties preserved

✓ Maintenance simplified

✓ Security ensuredée

In this case, it is imperative that a complete check of your installation should be carried out.

The complete checking procedure can be found in the NFC 17-102 standard (art. 8.5 and 8.6) and is resumed in the FT-LPSFR-11 specification sheet. This check is a prerequisite to the preservation of your warranties.

By calling upon a LPS France licensed agent, you are sure that the checking procedure is respected and that the appropriate measures are taken.









Maintenance and servicing equirements to be met



Contact@ir®

SYSTEM

An outside protection against lightning with a lightning rod must be checked every year and after each lightning strike to ensure its good working order. Source NFC 17-102 - September 2011, (art. 8.2).

Maintenance and servicing of your lightning protection installation are also neccessary to preserve your manufacturer's and installer's warranties.

To ensure a total security, you must be certain of its efficiency at any time.

Contact@ir® system is an exclusive solution proposed by LPS France to meet normative requirements, preserve your warranties and ensure your security throughout the lifetime of your lightning protection installation.

Why use Rout@ir®?-

Contact@ir® system, if used with Rout@ir® receiver, enables you to check the good working order of your product remotely.

If one of your product is struck by lightning, you immediatly receive a warning.

You are given the lightning strike intensity level on a scale from 1 to 3.

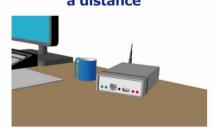
It is thus possible to know which type of checking has to be done.

Your products equiped with a Contact@ir® emitter permanently communicates by radio waves with your nearby-located Rout@ir®.

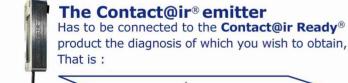
Datas collected by Rout@ir are constantly transmitted to the server on which they are recorded and dated without any intervention on your part.

The multiplicity of usable networks for the data transmission makes its use possible even in the most isolated places. Datas can be remotely accessed to, from any appliance connected to the internet. At any time and from anywhere, you can peruse the status of you installations.

Une surveillance continue, à distance



What are the necessary equipments?





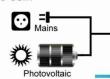
The Contact@ir® emitter can be fitted on the Contact@ir Ready® product during the assembly or at any time during the life time of the installation.

The Compt@ir® range

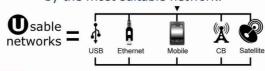
Rout@ir® must be installed within a 200m radius around the product to which the emitter is connected.

It can be supplied on the mains or thanks to a photovoltaic cell.

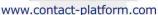
Rout@ir®



It transmits the datas to the server by the most suitable network.











Contact@ir® System with Rout@ir®



Lightning strike alert

Maintenance level

Lightning strike intensity

Study - Prevention - Protection - Lightning

Which information shall I obtain with Rout@ir®?-

On the www.contact-platform.com server, you will obtain the following information:

Identification:

- The Compt@ir® or Paraton@ir® serial number,
- The type and colour of the Paraton@ir®,
- The emitter serial number,
- Potential notes previously entered.



Relevant and clear information

Diagnosis:

- Quality of communication,
- Product integrity,
- Product working order

History:

- Lightning strike history
- Chronology of previous diagnosis by product,
- Diagnosis results,
- Previous users' comments.

All information continuously collected by **Rout@ir**® are automatically transmitted to the server, dated, recorded and chronologically classified.

This information is necessary to draw up documents relative to the carrying out, the checking and the maintenance of your installation.

Those documents are imposed by the NFC 17-102 standard (art. 8.1 to 8.7)

To learn more, connect to www.lpsfr.com.

-What do I do if I receive a lightning strike warning ?

Contact@ir[®] system used with **Rout@ir**[®] transmits an in-real-time warning when the protection installation is struck by lightning.

The NFC 17-102 standard imposes a check of your lightning protection installation each time the protected structure is struck by lightning (art. 8.2).

This measure aims at ensuring the efficiency of your protection installation without any interruption. For this reason, simply receiving a lightning strike warning must leads you to check the integrity and the good working order of your product on the **www.contact-platform.com** server.

Rout@ir[®] also enables you to know the intensity of the lightning strike picked up by your product on a scale from 1 to 3.

This feature, as the whole of Contact@ir system, is a LPS France exclusive.

The intensity of the lightning strike picked up by the your product and the result of its diagnosis assist in determining whether a visual, normal or a complete check of the installation is necessary (cf. NFC 17-102 standard, art. 8.2 to 8.6), as well as the urgency level of the action to be taken.

A performant decision-support tool.

Thanks to $Rout@ir^{\otimes}$, you save time and avoid useless expenditure while ensuring the efficiency of your installation with more targeted actions.

What other requirements is Rout@ir® meeting?

According to the NFC 17-102 standard (art. 8.2) your lightning protection installation must also be checked :

- Periodically in order to be able to anticipate and forestall the natural wear of your installation,
- Each time the protected structure is modified or repaired.

With **Rout@ir**®, the historization of lightning strike warnings favours the prevention of use-related dammage on the installation and you can rapidly carry out a diagnosis wherever you are.

- ✓ Standards respected
- **✓** Warranties preserved
- ✓ Maintenance simplified
- ✓ Security ensured

If the diagnosis reveals a critical information, your installation must be the object of a visual, normal, or a complete check as appropriate (cf. NFC 17-102 standard, art. 8.5 and 8.6). This check is a prerequisite to preserving your warranties.

By calling upon a LPS France licensed agent, you are sure that the checking procedure is respected and that the appropriate measures are taken.

