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Alert@ir® XT

Lightning warning - prevention and maintenance

Study - Prevention - Protection - Lightning

Alert@ir® XT is an in-real-time and remote lightning strike warning system.

As there is an increasing requirement for the maintenance of protection against lightning equipments throughout the world, we have developed a system that will allow you to be informed in-real-time about the lightning events happening on an outside lightning protection whatever its type and trademark and thus to manage its 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 (art. 8.2). More than a normative obligation, keeping a security investment in good working order is a virtuous preventive approach.

The servicing and maintenance of your protection against lightning installation are as well necessary to the preservation of your manufacturer's and installer's warranties. To ensure a total security, you must be able to be sure of its efficiency at any time.

The **Alert@ir® XT** system is an exclusive solution designed and manufactured by **LPS France** to meet the normative requirements, preserve your warranties and ensure your security all along the lifetime of your outside protection against lightning.



Why use the Alert@ir® XT system?

Fitted on a grounding conductor of a lightning protection, the **Alert@ir® XT** system sends an in-real-time warning by internet during a lightning strike.

If one of your installations is struck by lightning, you immediately receive a warning. The intensity level of the lightning strike is indicated on a scale from 1 to 3. It is thus possible to know which type of checking is necessary, the intervention urgency level and to organize the maintenance operation in order to preserve the protected structures.

Example of Alert@ir® lightning warning message



LPS France : lightning warning
The installation with the identification number 1210985FT has been struck by lightning.
The Alert@ir product A10b65870356 has sent the following datas :
Date of the lightning strike : 20/04/15
Time of the lightning strike (GMT) : 09h43
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.

A continuous remote surveillance

Nota :

Your products equipped with a **Contact@ir®** emitter permanently communicate with your **Rout@ir®**. Therefore, you can check your **Paraton@ir®**, **Compt@ir®** or **Alert@ir®** equipments in-real-time. at any time without travelling.

What is the Alert@ir® XT system ?

The system is composed of an **Alert@ir®** product and of a **Contact@ir®** used with the **Rout@ir** receiver. The **Rout@ir®** product must be connected to the internet to send back the transmitted information. The solutions of connection to the network are extended at will and enable to adapt the system to any configuration (ethernet, mobile, satellite...).

The **Alert@ir® XT** and **Contact@ir®** products are self-powered and do not need any maintenance (IP65 classification). The **Rout@ir®** product must be permanently power-supplied to send back the information transmitted by the **Alert@ir® XT** and **Contact@ir®** pair. We offer you the choice between mains power or photovoltaic supply for the most difficult locations.



LIGHTNING PROTECTION SYSTEMS FRANCE
BP 80055 - F-33460 MARGAUX



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Where and when use the Alert@ir® XT system ?

The **Alert@ir® XT** system can be fitted anywhere in the world, on any type of outside protection against lightning installation such as a single point lightning rod, a meshed cage, a faraday cage or an early streamer emitter lightning rod, at any time during the lifetime of a new or existing installation, modern or old, of the **LPS France** brand or a competing brand, on any type of conductor, plane or round, woven or solid.

Alert@ir® XT is universal

After registration on our dedicated servers, your installation will communicate the lightning warnings in-real-time, as well as the whole of its parameters, the servicing events and checkings to be carried out.

Which information shall I obtain with the Alert@ir® XT system ?

Identification :

- The serial number of the **Alert@ir® XT** product,
- The type of the **Alert@ir® XT** product,
- The serial number of the **Contact@ir®**,
- Potential notes previously entered.

Diagnosis:

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



History :

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

- + In-real-time lightning warning
- + Lightning intensity
- + Level of checking

All information continuously collected 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 ?

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 lead you to check the integrity and the good working order of your product on the www.contact-platform.com server.

The **Alert@ir® XT** system 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 your product and the result of its diagnosis assist in determining whether a visual 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.

In order to read those datas correctly, we advise to call on a **LPS France** licensed agent who will know which are the essential preventive measures to take for your protection and the preservation of your warranties.

Thanks to **Rout@ir®** you save time and avoid useless expenditure while ensuring the efficiency of your installation with targeted actions.

Why use the Alert@ir® XT ?

The **Alert@ir® XT** system is an in-real-time information relay on the status and the history of a lightning rod installation.

According to the NFC 17-102 standard (art. 8,2) a protection against lightning installation must be checked :

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

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

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

