

STORMDETEC™

ANTICIPATE TO PREVENT

The **STORMDETEC™** is a storm detector with mill field of new generation, at professional use, patented, which measures in real time the variations of the electrostatic field determining the high probability of an imminent storm with a local risk of thunderstorm.

Easy to install and to implement, it is entirely configurable to be adapted to the operational needs of the safety politic of the user. It can be piloted at distance with computer.

Lightning and storms are at the origin of many natural damages. It is feared in the world with the extent of direct and indirect destructions that it create on their passage at the point to become an important economical issue.

The advanced detection of storms provided by the **STORMDETEC™** allows to

- give us, with anticipation, the time to implement procedures, means of protection to limit:
- the risks for people
- destructions, problems of production
- give us the means of a reliable and economical control of care principle with a delay of anticipation of a storm arrival which can reach 20 mm and a distance of detection of 20 km and more.

Dimensions

Measurement head TMC: diam 185mm h: 165mm weight: 2, 8 kg

Control and power supply box CCA: L: 390mm l: 200 mm

P: 115 mm

Weight: 9,5 kg (emergency battery included)

Measurement head waterproofing: IP54 waterproof to streaming

Control and power supply box sealing: IP33 indoor use

Power supply

Mains supply voltage: 220 v AC/50-60 Hz or 110 V AC/50-60 Hz

Protection with fuse: 1, 25 ampers in 220 V et 2,5 ampers in 110V

Power consumption: 80 W (active heating)

Power consumption in normal use: 20W

Built in battery back up: lead battery, waterproof, with maintenance-free 12 volts, 12A/h

Low battery charge limit protection: shutdown when battery expires, automatic reset on return of mains power

Autonomy: 10 hours (energy economy programm)

Measures

Capacity to measure the electrostatic fields of standardized storm: 0 to 20 + or = 200 kv/m

TMC unit electrostatic field measurement range: 0 to + or =600 kv/m

Resolution: 5 V/m

Enclosure

1-A display that shows the operations on the pop-up menu and the value of the measured electrostatic field in real-time.

2- A configurable buzzer with adjustable sound level.

3- A series of alarm indicators light : level 1: distant storm/ local stormy tendency, level 2 : storm approaching/local storm developing

level 3 : local storm in progress/imminent lightning strike probability

4-A set of commands for controlling and managing configuration settings



OUTPUT ENCLOSURES (CCA)

Measurements signals

RS232 : provides the field measurement values, the level 1, 2 and 3 alarms and the failure alarm.

Data rate 19,200 bauds

RJ45 TCP-IP (pseudo modem) protocol, optional, providing the same signals as the RS232

Relay, dry contact (idle and triggered) :

Relay for level 1,2,3 alarms : 250V/5A – relay for failure alarm

PE5 : 250V/5A-Relay for external indication use PE4 250V/5A

Use conditions

Measurement head: -35°C to $+55^{\circ}\text{C}$

Humidity level: up to 100%

Control and power supply box: -5°C to $+45^{\circ}\text{C}$

Humidity level: up to 80%

Network operation: optional

Guarantee

STORMDETEC™ is guaranteed one years parts and labor at the factory for use in compliance with the technical manual supplied with the device.

STORMDETEC™ is supplied with a quality control certificate.



EXAMPLE OF INSTALLATION

