Meteo M&R

lightning detection

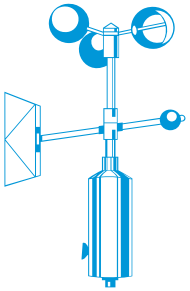
IPSO
lightning detector

DETECTOR OF ELECTRIC ATMOSPHERIC DISCHARGES

LIGHTWEIGHT ANTENNA

PROGRAMMABLE ALARM

IPSO is a detector of electrical atmospheric discharges (lightning) based on the registration of the electromagnetic field produced by lightning strikes within a radius of 30 km (18,64 miles). IPSO has a lightweight antenna, tho be installed outside and connected to a control module through which lightning strikes are registered, alarms can be programmed and battery charge can be checked.



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OPERATION

The frequency of electral atmospheric discharges with-in the radius of detection is indicated by luminous signs (LED) that are progressively lighted as the number of detected discharges increases.

The user can freely decide which level of activity (and corresponding LED) he wants to associate with each of the two alarms provided with the IPSO. When the level of alarm previously programmed is reached, IPSO activates the corresponding relay. It allows disconnecting automatically sensitive equipments, activating acoustic or visual external alarms, sending alert SMS, etc. Each alarm can also be associated with an optional acoustic signal.

IPSO works both plugged in alternating current (adapter 220-240V / 6V supplied with connection cable) or with batteries (4 x 1.5V class C / LR14). Batteries installation is recommended to guarantee device operation in case of power supply cut off.

FEATURES

Knowing in real time the distance of the storm allows putting in place warning and protection systems to prevent the effects of lightning impacts on persons, equipments and facilities; sensitive equipments can also be disconnected automatically at a certain level of alert to avoid they could be damaged or destroyed.

IPSO stands out for its ease of use and installation due to the small dimensions and light weight. It also offers a high reliability as it can work even after an electric current cut off. Beside LED and programming buttons control module is provided with a power supply connection (6V DC) and two relays (with an activation timing of 30 minutes each) to connect/disconnect external systems.

The antenna is provided with an installation adapter (bracket) that allows fixing it on any surface (wall, window, pole...).

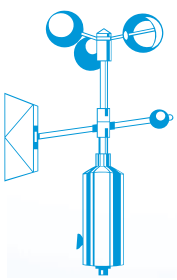
NORMS & TESTS

- EN 61010 Electrical safety requirements
- EN 50081-2 (94) Electromagnetic Compatibility (EMC)
- EN 61000-3-2 (97)//A12 (97)//A1 (99) EMC
- EN 61000-3-3 (97) EMC
- En 61000-6-2 (00) EMC
- Fits the criteria of Low Voltage Directive 73/23/EEC (Safety of electrical equipment designed for use within certain voltage limits) and Directive 89/336/EEC (Electromagnetic Compatibility)
- Calibration certificate from Electro-technical Laboratory LABELEC (accredited by ENAC)

TECHNICAL SPECIFICATIONS

Measures	module:	220 x 140 x55 mm
	antenna:	510 mm
Weight	module:	873 g (with batteries)
	antenna:	110 g
Power requirement	6 VDC	(adapter AC-DC / 4 batteries x 1,5V Class C / LR14)
Power consumption	7 mA	
Relays (max)	10 A, 250 VAC, 60 VDC	
mounting	module:	on the wall
	antenna:	adapter for external installation
relay 1 timing	30 minutes	
relay 2 timing	30 minutes	
radius of detection	30 km	
acoustic alarm timing	2 seconds	
standard cable length	15 mm	

made to measure



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