

CDR-11 LIGHTNING STRIKE COUNTER



Ref. 430019

PRODUCT

Electro-mechanical lightning discharge counter.

APPLICATIONS

The lightning counter CDR-11 is a device designed to detect lightning strikes upon any external lightning protection system (lightning rods, Faraday cages, etc.).

OPERATION

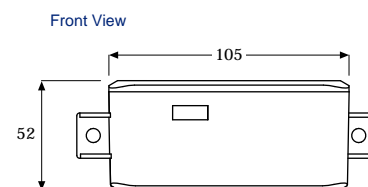
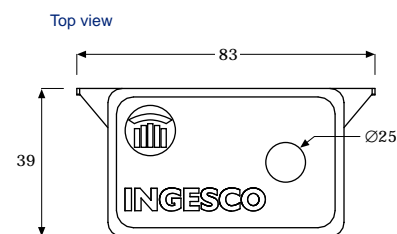
CDR-11 detects the electrical energy that is derived to the ground through a conductor when a lightning impact occurs. The device registers each impact incrementing the counter in one unit each time. CDR-11 must be installed in the down conductor that connects the lightning rod to the grounding system. It does not use any type of power supply because it uses the electric energy of the lightning.

It is recommended to complement CDR-11 with the installation of a PCS Card.

NORMS & TESTS

The installation of lightning impacts counters in the down conductors are strongly recommended in the standard norms NFC 17.102, UNE 21.186 and EN 62.305, to allow a proper control and verification of a protection system after any eventual lightning strike.

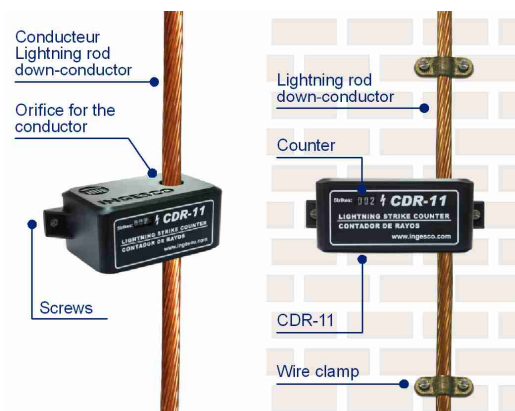
The CDR-11 lightning counter has been designed according to the requirements of the UNE-EN 50.164-6:2009 norm, Lightning Protection Components (LPC). Part 6: Requirements for lightning strike counters.



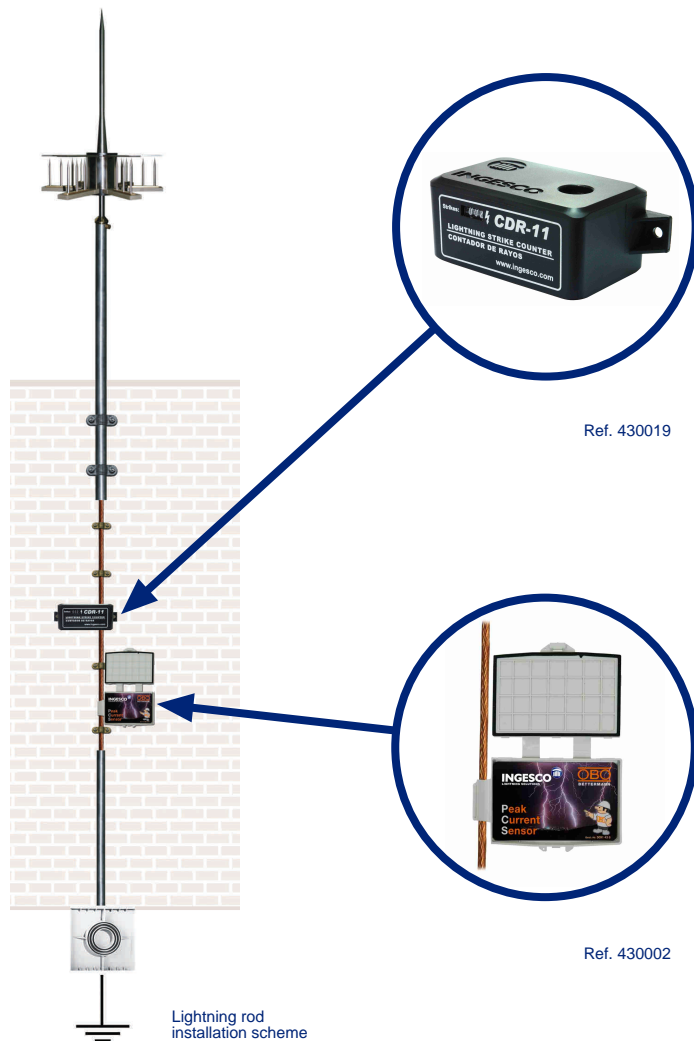
Measurements in mm.

TECHNICAL SPECIFICATIONS

Measurements	83 x 39 x 52 mm
Weight	290 gr.
Range of Intensity	1 kA (8/20 μ s) - 100 kA (10/350 μ s) (according to EN 50.164-6:2009)
Range of register	from 0 to 999 impulses
Working temperature	from -20°C to 65°C
Protection degree	IP 65
Bypass connector (shunt) (cable/rod/plate)	50 - 95 mm ² / \varnothing 8-12 mm



The recommended lightning control system is composed by an electro-mechanic lightning discharge counter CDR-11 and a PCS card (device for measuring current intensity). This system allows having a constant and reliable control on the number of lightning strikes and on the maxim current intensity the protection system has borne. This information is basic to ensure the correct operation of any lightning protection system.



CDR-11 CHARACTERISTICS

- Great register capacity (999 impulses)
- Easy visual control
- Detection of impulses from:
 - Intensity min:
1 kA (8/20 μ s according to EN 50.164-6:2009)
 - Intensity max:
100 kA (10/350 μ s according to EN 50.164-6:2009)

PCS CHARACTERISTICS

- Magnetic card device
- Measure the electrical discharge intensity
- Registers the maxim intensity

GUARANTEES & BENEFITS

- Fulfils standard norms NFC 17.102, UNE 21.186 and EN 62.305
- Easy adaptation to the down conductor of any lightning protection system
- Allows controlling the lightning rod condition
- Works in any atmospheric condition (from -20°C to 65°C)
- Offers updated and reliable information
- It does not need power supply
- Easy installation and operation

REMEMBER :

According the standard norms NFC 17.102, UNE 21.186 and EN 62.305, each lightning protection system must be periodically checked, specially after any lightning impact on it.