

## LIGHTNING STROKE COUNTER - CCF 2004

### General description

This counter, which is connected in series to a lightning down conductor, records each passage of a lightning current between 0,15 kA and 150 kA.

This counter has a Normally Open contact of remote control highly insulated from down conductor .

This product is delivered with two connectors for 30 x 2 mm flat conductor. Connectors HRC 8010 (not included) should be used for 8 to 10 mm diameter round conductor.

### Operation

Connected in series to the down conductor, this counter uses the current induced in a secondary circuit to activate an electromechanical counter.

Its development includes in situ tests and trials in the High Voltage Laboratory.

### Electrical Characteristics:

- Minimum trip threshold : 0,15 kA ( 8/20 $\mu$ s )
- Maximum permissible current: 150 kA ( 8/20 $\mu$ s)
- Remote Control Current Max: 500mA
- Remote Control Tension Max: 100V
- Remote Control Insulation: 10 GOhms

### Mechanical Characteristics:

- Size: 49 mm x 62 mm x 121 mm
- Weight: 410g
- Watertight protection: IP 65
- Operating temperature: - 25°C to + 70°C
- Down Conductor Connection: Round tinned copper 10mm diameter
- In accordance with UTE C 17-106
- In accordance with the EMC applicable directive

### Fixing

The CCF 2004 counter can be fixed to:

- a wall, using 2 screws of 4mm diameter, or 2 pop rivet of 4mm diameter
- a steel section, using a 20 mm stainless steel collar.

### Using

Each user of CCF 2004 has to register the date of first use and to verify it periodically.

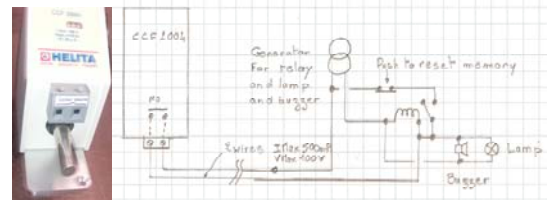
The counter is delivered with an initial display of 000.

### Fitting

The CCF 2004 counter is connected in series to the down conductor at a height of 2 m above the ground, over the control junction ( Extract of the French Rule NF C17-102 ).

### Remote Control

The remote control is a fugitive normally open contact that closes during the current time. This fugitive closing has to be memorised in a circuit or connected to an alarm radio remote circuit.

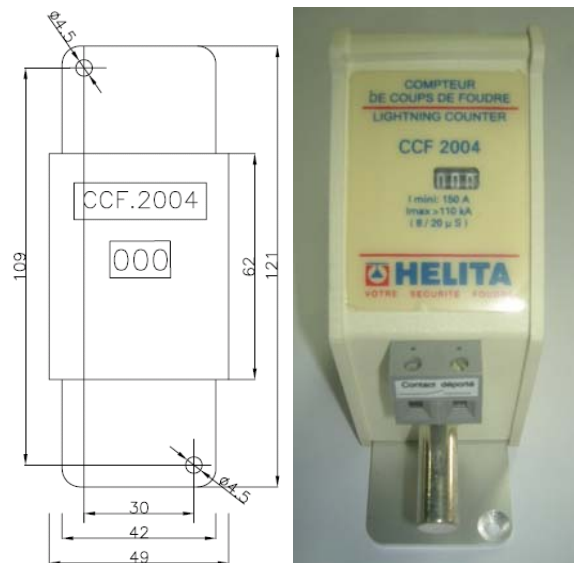


### Test Certification

The electrical characteristics of this product have been certified by the LCIE laboratory (Test certificate N° 366 77 010 dated 21-12-2006 – Tested in accordance with the NF C 17 106 Rule from 150 A to 110 kA)

### Final Test

Each lightning stroke counter is assembly with an electromechanical counter displaying 997 and positioned at 000 by applying 3 electrical of 1kA pulse that certified the good operation of the counter



Reference	Designation	Weight ( Kg )
CCF 2004	Lightning stroke counter delivered with 2 flat conductor connectors)	0.56
HRC 8010	Connector for round conductor 8 to 10 mm diameter in line	0.16

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