



## LIGHTNING STRIKE COUNTER CURRENT, CHARGE, TIME & DATE RECORDER Type « Energy » CCF-3-E

### ◆ AIM

Detection, counting and recording of time and date of current impulses above a specific threshold level flowing through a conductor (lightning conductor, surge protective device ...).

### ◆ APPLICATIONS

- For surge current flowing through surge protective devices,
- For surge current flowing through lightning protection system conductors,
- For surge current flowing through electrical system conductors.



### ◆ ELECTRICAL CHARACTERISTICS

- Conformity to standard : ..... **IEC/EN 62561-6**
- Threshold level (Id) : ..... **1 kA**
- Maximum withstand current : ..... **100 kA**
- Stored impulses number : ..... **last 99**

### ◆ MECHANICAL CHARACTERISTICS

- Plastic tight enclosure : ..... **watertight (IP 67)**
- Dimensions :  
**L** : ..... **160 mm**  
**P** : ..... **80 mm**  
**H** : ..... **65 mm**
- Weight : ..... **800 g**
- Fixing onto round conductors ( $\varnothing$  6 to 10 mm) or flat conductors (30 x 2 mm) with a collar without disconnection of the down conductor (other fixings available on request).



## ◆ DISPLAY CHARACTERISTICS

- date format :.....hh:mm dd/mm/yy
- Internal time base stability :.....typically  $\pm 30$  s/month
- Current display \* : .....**xx,x kA**  
\* : Due to the necessity to protect the internal circuitry in the case of very high lightning currents but at the same time maintain an acceptable accuracy for smaller current values (which are more frequent) the display for current magnitudes greater than the “display limit value” (typically 80 kA) may not be displayed with the correct value but instead with the Display Limit Value. This current display limit depends on the waveshape of the current pulse.  
Accuracy of current measurement over the range 1 kA to display limit value is  $\leq 5$  %.
- Charge display \*\* : ..... **yy,yy As**  
\*\* : depends on charge value. Charge is very different for a 1 kA 8/20 impulse versus a 100 kA 10/350 impulse. For larger charge values the display is given as yy,y As. For smaller charges values, it is given as y,yy As.  
Accuracy of charge measurements over the range 1 kA to Display Limit Value is  $\leq 10$  %.

## ◆ INSTRUCTIONS D'UTILISATION

The device can be used outdoors or indoors. The counter is connected to the monitored conductor using the specific collar with 4 screws which are accessible without removing the enclosure. A maximum torque of 60 N.cm should be applied to fix the counter on the conductor. Battery replacement requires opening of the devices by an authorized personnel.