

Lightning flash counter

Bộ Đếm Sét Indelec P8011b

Lightning flash counter

Ref 8011b



Description

The lightning flash counter is designed to keep a record of all direct lightning strikes on the external lightning protection system (Prevectron, single rod, meshed cage, ...). The digital display (2 digits) allows a direct and comfortable reading of the number of recorded impacts. Lightning discharges counting and saving requires no external power supply and is not thus dependent on the life cycle of the internal battery. The internal long duration lithium battery is only required for displaying strikes figure when the button located on the front panel is pressed.

Tests

According to the UTE C 17-106 Guide, the lightning flash counter was subjected to several test procedures in high voltage laboratory. The values indicated below are based on the LCIE test report (available on request). Moreover, following its unique policy of research & development in real lightning conditions, INDELEC has successfully submitted the lightning flash counter to real lightning discharges during the 2004-2005 test campaign in Cachoeira Paulista (Brazil). The average value of the lightning strike currents was 45 kA. During this campaign, the lightning flash counter has demonstrated its reliability (counting) and its robustness under these extreme lightning strike conditions.

Installation

The lightning flash counter is fixed directly on the down-conductor using 2 mounting flanges located on the back face. No interruption of the down conductor is necessary, thus allowing an excellent electrical continuity of the installation down from the rod to earthing the system. The counter records the lightning current by induction at the time of passage in the down conductor.

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Technical data

References	8011b	
Minimal detectable current	I_d	1 kA
Maximal detectable current	I_{max}	100 kA
Minimum current sensitivity ($i_d/3$)	I_{nd}	333 A
Protection class	IP	54
UTE C 17-106 Guide compliant		certificate 2005-291 A

Schematic (mm)

