

Inspection ESEAT maintenance

The current standards NF C 17-102 September 2011 edition recommends regular, periodical inspections of the lightning protection system. The following schedules are recommended:

Protection level	Visual inspection (year)	Complete inspection (year)	Critical system complete inspection (year)
I and II	1	2	1
III and IV	2	4	1

A lightning protection system should also be inspected whenever the protection structure is modified, repaired or when the structure has been struck by lightning. Lightning strikes can be recorded by a lightning strike counter installed on one of the down conductors.

ESEAT maintenance kit, a unique solution

With its experience of ESEAT development and special testing processes, ABB offers a simple and complete solution: a telescopic 8 m pole supplied with a portable test case to enable simple in situ inspections. The device can be used without dismantling the ESEAT.

A visual inspection should be performed to make sure that:

- no damage related to lightning has been noted
- integrity of ESE System has not been modified
- no extension or modification of the protected structure needs the installation of additional lightning protection measures

- the electrical continuity of visible conductors is correct
- all component fasteners and mechanical protectors are in good condition
- no parts have been weakened by corrosion
- the separation distance is respected and there are enough equipotential bondings and their condition is correct

- SPD end of life indicator is correct
- maintenance operations results are checked and recorded

Complete verification includes visual verification and the following measurements to check:

- the electrical continuity of hidden conductors
- the earth termination system resistance values (any variation with regards to initial values > 50 % should be analysed)
- properly working of ESEAT according to manufacturer procedure.

The findings of each scheduled inspection should be recorded in a detailed report stating the required corrective measures. Any faults identified in a scheduled inspection should be corrected as soon as possible in order to maintain optimal lightning protection. Initial verification should be performed once the ESE system installation is completed in order to make sure that it complies with the NF C 17-102 standard requirements.



Ordering information			
Model No.	S-E-Tester	S-E-POLE TEST KIT	S-C-Prob-Lead
Part No.	115001	115002	115003
Weight (kg)	1.8	3.2	0.5
Guarantee (year)	1		
Packing unit.	1 pc(s).		

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You can find the address of your local sales organisation on the home page



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