

Active^{2D}[®] Multitester

Unique solution

Easy maintenance and check

Active^{2D}[®] lightning rods multitester

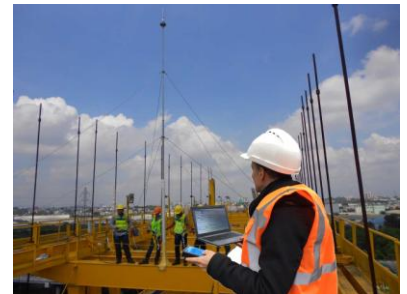
In accordance with NFC 17 102 standard and regulations, lightning protection installations should be checked regularly.

These checks are initial during the installation, and periodical according to the technical studies and applicable standards to the different sites.

It is also recommended to do functioning tests after each lightning strike.

To do these tests, the Active^{2D}[®] proposes several tests solutions:

- Wired tester (AFV0050TT box) which can be done either dismantling the lightning rod, either using the test perch (AFV0087PT).
- Active^{2D}[®] lightning rod « mono » remote tester (AFV0101TT box) : this prevent the lightning rod from being dismantled – best solution for lightning rods installed at very big height or/and not easily accessible.
- Active^{2D}[®] remote tester « several lightning rods » (AFV0200TT box): allows to use only one test system for several lightning rods.



The advantages of the several lightning rods remote tester are numerous:

- According to the site configurations, no need to have access on the roof.
- Possibility to do the check report directly with the « Pack », which includes the computer.
- No need to have several remote testers; very useful solutions for sites with several ESE.
- Adapted solution for control companies (APAVE, SOCOTEC,..)
- A test which checks numerous functioning points of the lightning rod (**not only** the communication or the electrical continuity).
- Solution easily transportable.
- The « pack » computer can be used for other applications, can be connected to internet (the check report can be send immediately).



Active2D[®] Multitester

Multitester functioning principle

The « multitester Pack » system of the **Active2D[®]** ESE works with laptop, an **Activ'**control and a LMS (Lightning Monitoring System Version Multitester) software.

The LMS software is installed in the computer at the factory – the serial numbers can (upon request) be programmed before the complete « pack » shipping.

Thanks to the **Activ'**control box connected to the computer, the software will collect the information of the lightning rods installed on the site (each lightning rod has a serial number which allows to be tested individually).

The communication between the box (**Activ'**control) and the **Active2D[®]** ESE is done by radio communication (433 Mhz) frequency. The maximum distance between this box and the lightning rod to allow the data collection is around 100 meters.

Pressing the « TEST » button of the LMS MULTI 2D software, the system will check the good functioning of each lightning rod. This operation consists in sending a current (very low) which will simulate a lightning strike.

During this action, the 2D system will go into action and the operator will be able to be sure of the good functioning.

This test will allow checking:

- The voltage at the terminals of the capacitor
- The voltage at the terminals of the battery
- The good functioning of the solar cells
- The electrical continuity
- The temperature of the **Active2D[®]**

The 2D Multitester « Pack »

The 2D Multitester « Pack » solution includes:

- A laptop with removable screen for more user comfort
- The LMS MULTI 2D (Lightning Monitoring System MULTI 2D) already installed in factory
- An **Activ'**control (communication box between the lightning rod and the software to collect the information)
- The different connectors (RJ45 connector-> USB, main power supply,...)
- The programming of the **Active2D[®]** serial numbers (until 5 serial numbers in factory included)

The pack reference is AFV0200TT:

Reference	2D Multitester
AFV0200TT	Complete Pack



PACK => RJ45 cable + USB supply + Tj45 adapter->USB + LMS software+ **Activ'**control + laptop



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