

EN 54 Part 13



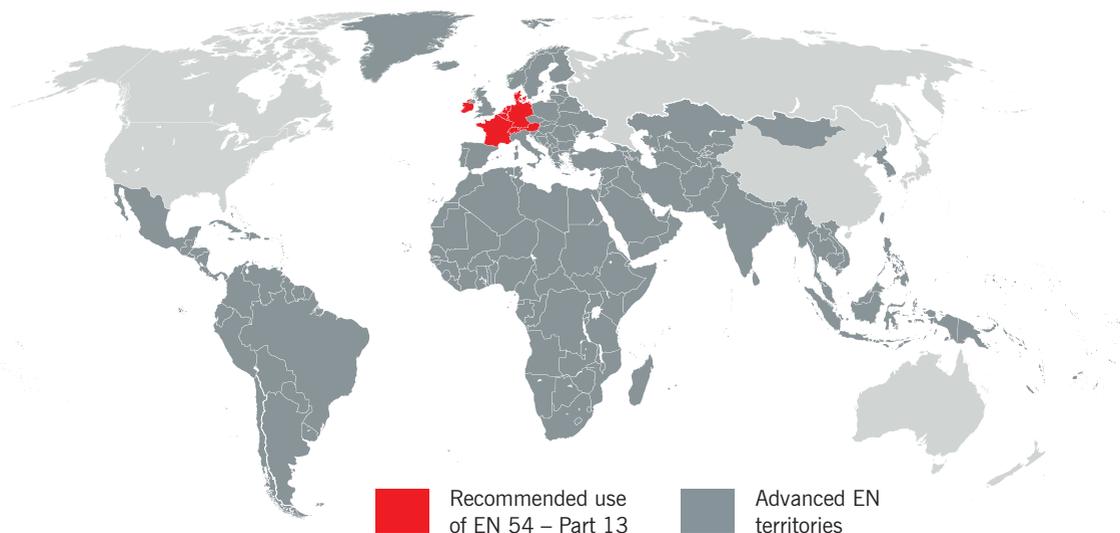
Does your system
measure up?



APPROVED

EN 54-13 is a European standard that ensures:

- Optimal fire system performance at all times.
- Lives are properly protected in a real fire situation.
- Complete peace of mind for specifiers, installers and end-users.



Advanced was one of the first manufacturers to gain Part 13 approval.

The standard involves **rigorous third party testing** to prove that individual component parts will **work together when combined** into one system.

EN 54-13 is currently mandatory or recommended in several European countries, but even where not mandated, it's a mark of system **performance and reliability**.

Given its many life safety benefits and the risks of not meeting EN 54-13 standards, **it's time to up-spec now**.

Five things you need to know about EN 54-13:

1 Approved systems are rigorously compatibility tested



2 Approved systems continuously check for faults



3 'Designed to' is not the same as 'Approved to'



4 Approved panels can save you time and money



5 Approved systems bring ultimate peace of mind



1

All parts of EN 54-13 approved systems are **rigorously tested for compatibility**, so you can be sure they'll work together.

Testing eliminates common problems that can affect any installation, including:

Insufficient power at the last devices on the circuit

Devices are tested at the extremes of the power supply, using maximum and minimum mains and battery voltage. This ensures the power at the end of the circuit is within acceptable levels for the devices used.



Voltage falling below minimum required levels

Tests are conducted using worst case alarm current and maximum cable impedance to check that operating voltage doesn't fall below the minimum required for devices at the end of the circuit.



Slow speed of response on networked systems

During testing, systems are assessed to ensure they meet the minimum critical response times for fire signal communication across networks. Meeting these minimum times is crucial to life safety.



Advanced's MxPro 5 and Axis EN panels support high-speed networking. This means fire signals, and other high priority messages, are sent around the network and can be displayed on every panel well within required response times – even on large networked systems.

2

EN 54-13 approved systems continuously check for faults, alerting you to potential problems that could compromise the system and put building occupants at risk.

Manual testing may occur infrequently or, worst case, not at all. Faults can go unnoticed and leave buildings and their occupants unprotected.



A system that checks automatically will highlight problems that commonly occur after installation, including:

On-site cable length alterations affecting resistance

The cable length of an installed system may differ from that of the designed system. This means that a scheme, which worked on paper, doesn't always work in reality. EN 54-13 approved systems monitor cable resistance on site to highlight any issues and allow any adjustments to be made before critical performance is affected.



Advanced's MxPro 5 and Axis EN panels constantly check for wiring problems, providing early warning of any issues so you have peace of mind that your system will work when most needed.

3

'Designed to' is not the same as 'Approved to'

DESIGNED TO?

All fire system products should be designed to meet the standards required for a particular market, but not all products are tested by an independent accredited laboratory.

APPROVED TO ✓

There's a huge gulf between the checks that individual manufacturers carry out to say they 'Designed to' EN 54-13 standards, and the rigorous tests that independent test laboratories conduct to award 'Approved to' status.

Advanced's MxPro 5 and Axis EN panels have undergone rigorous third party testing and are approved to EN 54-13.

4

EN 54-13 approved panels can save you time and money

Part 13 approved panels monitor the voltage and current being used on each circuit so that you can check if a system is overloaded and diagnose faults quickly and correctly.



Advanced's EN 54-13 approved panels show the current operating characteristics of a loop, including spare capacity. This helps prevent additional circuits being installed unnecessarily and can save hundreds, or even thousands, of pounds on large installations.

5

Approved systems bring ultimate peace of mind

EN 54-13 approved systems:

- Are rigorously tested for compatibility of components, so you know they'll work when you need them most.
- Immediately flag up issues by constantly checking voltage levels and faults.
- Are fast and efficient, giving building occupants maximum evacuation time.



Advanced's MxPro 5 and Axis EN panels are fully EN 54-13 approved. All approved systems carry approval certificates, detailing which components have been tested together – these are your guarantee of compliance with the standard.

Contact us now for further information.

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