

TGN 36 on the assessment of products operated by touchscreen.

1 The Issue

Many products are now designed with a touchscreen. These touchscreens form an important part of the functional assessment required during immunity tests as defined by standards such as EN 61000-4-3 and EN 61000-4-6 to ensure that will have the desired effect on the hardware. It is known that touchscreens can 'freeze' and limit the equipment's functionality.

2 Guidance

Given the issue detailed above, it is important that when an EMC Notified Body is asked to provide an EU-Type Examination on these types of devices, a check of the test report is required to confirm that the touchscreen has been adequately assessed during testing. The Notified Body also needs to consider all the functional modes of the product as referenced by the test standard and what users may reasonable expect when using the product.

The risk analysis shall highlight the functions to be tested whether the touchscreen is an element necessary to the operation of the product.

Depending on the definition of the operating modes, the equipment shall be tested in all operating modes identified in the risk analysis (touch screen touched or not by the user in use).

Disclaimer

This EUANB TGN does not replace the text of the EMC Directive 2014/30/EU and is for guidance only. In legal disputes the text of the Directive 2014/30/EU, or its implementation in National legislation, takes precedence.