

# EMC - Electromagnetic Compatibility

EMC testing is used to manage unintended electrical noise. This is necessary in order to ensure that your product can function properly next to other electronic equipment. EKTOS is an accredited test laboratory and can help you with the necessary basis for approvals in the European, North American, and Japanese markets.

## What is EMC?

Electromagnetic compatibility - in short EMC - has to be considered in almost all types of electronic engineering, both regarding emission and immunity. Emission concerns the generation of electromagnetic noise which is released into the environment around the electronic product. Immunity concerns the ability of the product to function correctly in the presence of electromagnetic noise from other equipment.

## Compliance with legislation

In order to sell an electronic product you need to be able to prove, that your product complies with the EMC standards and requirements for the area where the product is to be sold. EKTOS TRS A/S, located in Copenhagen, is accredited by DANAK, which means that testing performed at our labs can be used as a basis for demonstrating compliance with the European EMC Directive, as well as North American (FCC), and Japanese rules (VCCI).

## Testing capabilities

EKTOS TRS A/S is authorized to perform EMC compliance testing to many international standards. Some of the basic EMC standards to which we can perform testing are:

- Radiated emissions and immunity
- Conducted emissions and immunity
- Fast transients and surges
- Electrostatic discharge (ESD)
- Mains harmonics, voltage dips, and interruptions

## Testing through all stages

EMC is a part of the development process and it is therefore often necessary, and cost saving, to carry out several iterations of tests during the development phase before the product can comply with specific directives. We offer pre-compliance testing at our test facilities in Viborg, where the testing services are offered at a lower cost than in our accredited test laboratory in Copenhagen.

## A variety of testing facilities

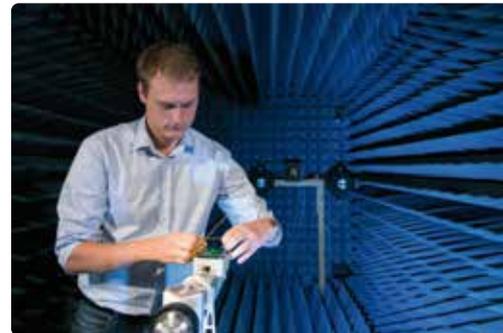
EMC testing is performed in fully equipped test laboratories with advanced EMC test equipment. Most test procedures are fully automated, ensuring fast, repeatable and reliable test results. We also have facilities for wireless and RF testing of products and systems such as Bluetooth, GSM, CDMA etc., as well as 3D antenna pattern measurements.

## What is DANAK?

DANAK is the national accreditation body in Denmark, appointed by The Danish Safety Technology State Authority. DANAK checks and verifies EKTOS's processes, routines, procedures, and the employees' competences. Furthermore, DANAK verifies that equipment is calibrated, and checks that measuring results are reliable and accurately recorded.



Radiated EMC-testing



Antenna measurements



EKTOS TRS is accredited by DANAK. We provide the necessary basis for approvals in most countries worldwide

### Want to know more?

Contact EKTOS Testing & Reliability Services for more information about accredited or non-accredited testing in Copenhagen and Struer

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