

Central Office of Measures

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EMPIR

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Project DIGAC



A digital traceability chain for AC voltage and current

The main goal of the project is the creation of a digital traceability chain between quantum standards of electrical quantities and dynamic measurements of alternating current and voltage.

This will create a dynamic measurement of current and voltage waveforms, which is required in many sectors, e.g. energy (energy and power), electrical engineering and electronics, health care, sensors, instrumentation and advanced production.



From 1st of June 2018 the Laboratory of Electricity and Magnetism takes part in the EMPIR VERSICAL project.

[VERSatile electrical Impedance CALibration Laboratory based on digital impedance bridges](#)

This topic focuses on the development of a new impedance metrology infrastructure, accessible to all NMIs, based on the novel concept of digital impedance bridges. The developed capabilities will enable NMIs to provide a primary-level electrical impedance calibration service for European industry, without requiring the use of traditional impedance bridges. The project will be completed after 36 months (3 years).

Read summary information about [European Metrology Programme for Innovation and Research \(EMPIR\)](#)