



**FRANKONIA**  
EMC Test-Systems GmbH

## EFS-LASER

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### Electric Field Probe

10 kHz to 6 GHz

The Frankonia EFS-LASER Electric Field Probe especially have been designed for field strength measurements / field homogeneity measurements during radiated immunity tests according to IEC/EN 61000-4-3. But it could also be used to measure the radiation pollution of the environment, for example at workplaces or flats.

The EFS-LASER is a high resolution, high speed, low noise electric field probe that provides high precision frequency and temperature compensation. The patented detection technology provides a 70 dB dynamic range and 0.5 V/m sensitivity. The E-Field Probe is laser powered to allow continuous galvanically insulated operation without recharging or battery replacement. As desired, the power supply comes either in a 19" (1HU) case ready for rack mounting or in a handy box with the dimensions 46 x 46 x 83 mm which can easily be carried. Calibration factors are provided with each probe. The EFS-LASER supports fiber optic cables up to 100 meters.

The EFS-LASER is an isotropic miniature E-field sensor to ensure, that the E-field will not be influenced by the size of the sensor itself. It even does not need any metering unit (which could also influence the field-strength), because of its direct fibre-optic output, which does allow direct connection of the sensor to the USB-interface of the control PC or laptop. The measuring values may be displayed via the individual IEC 61000-4-3 control software or via a windows-software included in the delivery.



#### Special features:

- Extreme small size
- High resolution, high speed, low noise
- Frequency range: 10 kHz to 6 GHz
- Field strength measurements from 0.1 V/m up to 10 kV/m
- Laser powered – no more empty batteries
- Wide dynamic range
- Continuous real-time data streaming
- Comprehensive frequency and temperature compensation