

EMCtools

Fiber optic remote switching system
Type LWL-Relais-Box



EMCtools
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Introduction and use

Functional tests e.g. in test-labs often require remote actuation of the device under test. For this purpose, the *EMCtools* LWL-Relais-Box provides eight independent, DC insulated remote controllable relay channels with common, normally open und normally closed contacts. Consisting of a control unit, a standard multimode optical fiber and the relay unit it is designed to be used in harsh electromagnetic environments during susceptibility tests in EMC-labs. Automated remote control is possible using an USB connection and a PC.



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Technical data control unit:

power supply: wall power supply 100 - 240VAC, 9V DC / 2A,
optional rechargeable Li-Ion battery 7.5V 2.2Ah, min. operating time 24 h

USB connector: Type B

Technical data relay box:

power supply: rechargeable Li-Ion battery 7.5V 2.2Ah, min. operating time 6h (all relays activated)
Li-Ion battery charger

relay type: DIL Reed-Relay, in socket, 0.25A, 300V, 3W

field strength: full functionality at electromagnetic fields < 270 V/m

Technical data system:

ambient temperature: -10 °C – 50°C

fiber optic: F-SMA, standard multimode optical fiber 62.5/125µm or 50/125µm

fiber length : operation guaranteed for fiber length up to 200m

Delivered devices of the system and accessories:

- One control unit
- One relay box
- One USB-cable for PC remote control
- One wall power supply
- One Li-Ion charger (2 cell)
- One CD with drivers and manual
- One printed manual
- Two apapters 2mm (male) – 4 mm (female) - red
- Two apapters 2mm (male) – 4 mm (female) - black
- Sixteen pcs. plug 2mm (male)