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 and 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.

![EMCtools LWL-Relais-Box](image_url)

**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 strenght:** 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 adapters 2mm (male) – 4 mm (female) - red
- Two adapters 2mm (male) – 4 mm (female) - black
- Sixteen pcs. plug 2mm (male)