EMCtools

Fiber optic remote switching system Type LWL-Relais-Box



EMCtools

Dipl.-Ing. (FH) Armin Lenk Meginhardstrasse 50 88356 Ostrach-Magenbuch Tel: 07585/3541 Fax: 07585/3560 info@emctools.de



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.



EMCtools LWL-Relais-Box

Technical data control unit:

power supply: wall power supply 100 - 240VAC, 9V DC / 2A,

optional recharchable 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 fileds < 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 filber 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)