EMCtools

ESD-Protector Tester
for EMCtools ESD-Protector

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ESD-Protector Tester

Introduction and use

ESD tests in test-labs often require galvanic insulated busses like FlexRay, CAN- (Controller Area Network) and LIN-busses (Local Interconnect Network) to control the device under test. For this purpose the EMCtools ESD-Protector and our standard fiber optic bus transceivers (Microbox) are available. They allow bidirectional data transmission of CAN/LIN-signals via fiber optic cables and can be used during ESD tests to protect Computers or Notebooks from the ESD discharge.
The combination of ESD-Protector and EMCtools Microbox were designed for ESD discharges up to 30kV (HBM).
The ESD-Protectors have to be tested prior to every ESD test to ensure proper function. This can be done either by using a simply test setup with power supply, a single resistor and a digital voltmeter as described in the ESD-Protector manual or the ESD-Protector Tester. It displays function/malfunction within a few seconds.

The ESD-Protector Tester checks the suppressor level (pos/neg), for shorts and the blocking capacitor.

Typical Setup:

ESD-Protector

ESD-Protector Tester

Technical data:

Power supply	9V Block battery PP3 (internal)	
Connector:	9-pin Sub-D (female) – fits to Microbox ESD-Protector	
Ambient temperature:	storage:	-40°C – 85°C (-40 - 185 °F)
	operation:	0°C – 60°C (-40 - 185 °F)
Size:	97 x 67 x 31 mm (l x w x h)	
Weight:	approx. g	
Test current:	1 mA	

Delivered devices of the system and accessories

1pcs *EMCtools* ESD-Protector Tester
1pcs Printed manual
1pcs 9V Block battery alkaline PP3