

TEACHING AID

Demoboard for house electrical installations

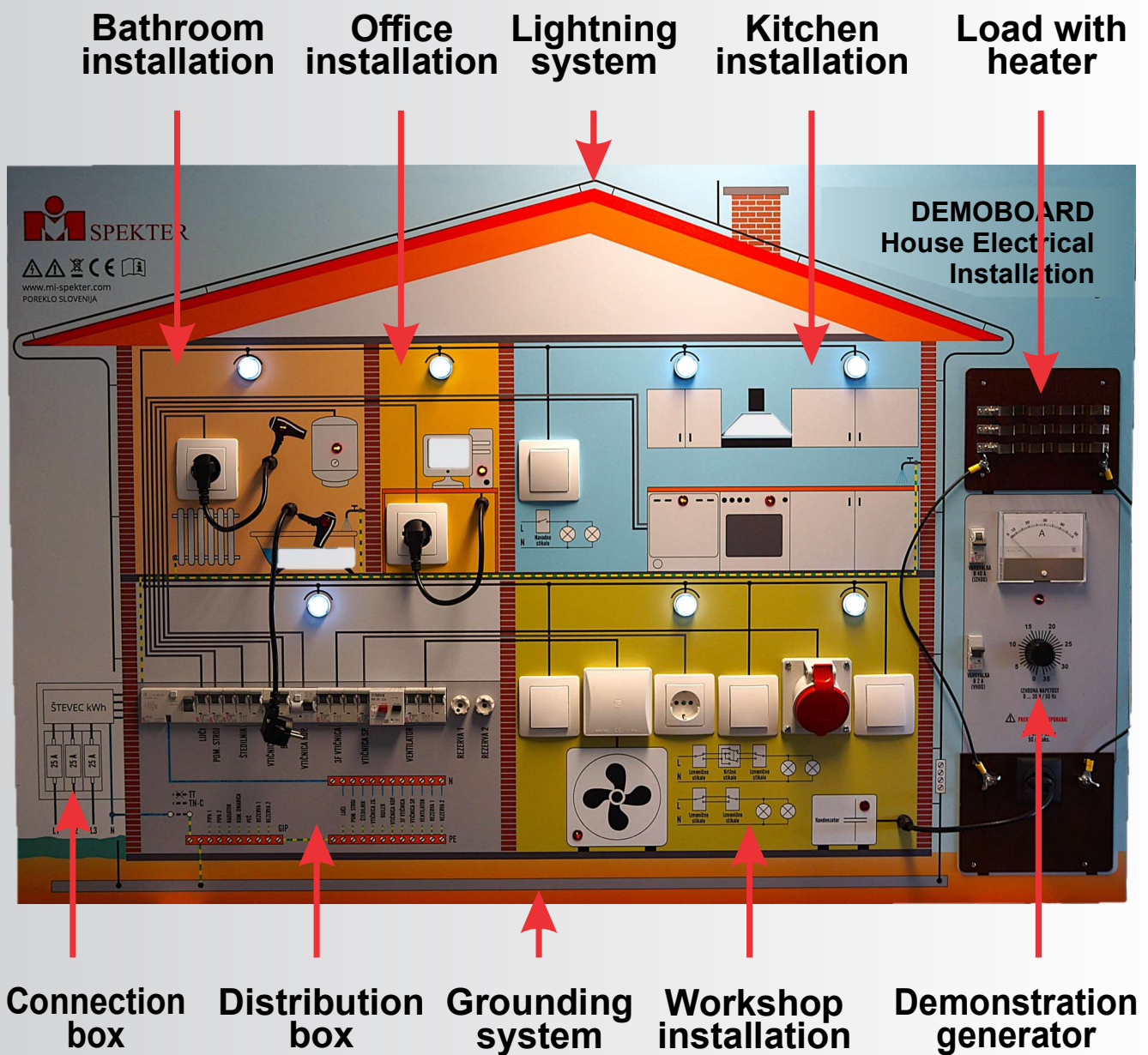
The Demoboard presents a typical house electrical installation with built-in functional and protection devices like melting and automatic fuses, Residual Current Devices (RCD), Motor Protection Switches (MPS), light control switches etc.

The Demoboard enables demonstration of possible faults on the installation and connected electrical devices.

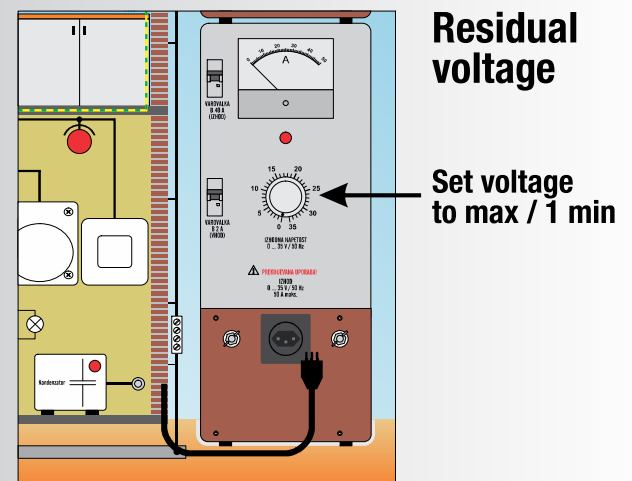
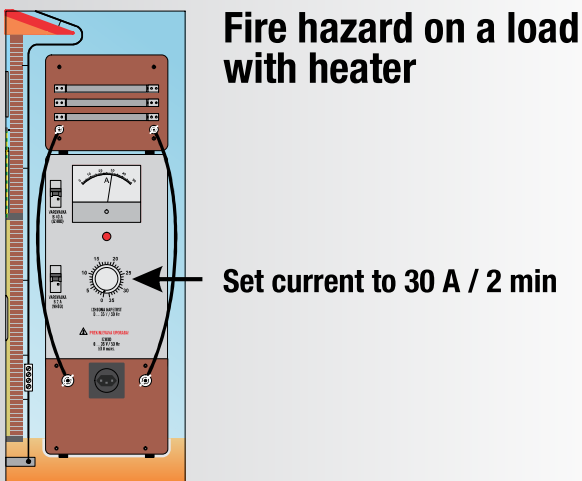
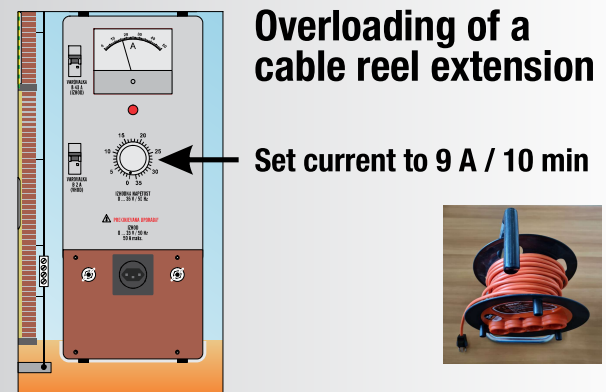
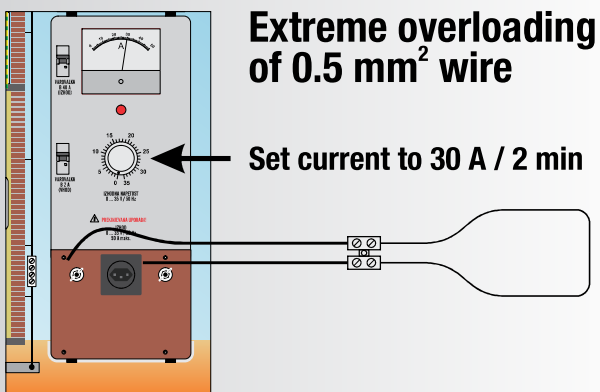
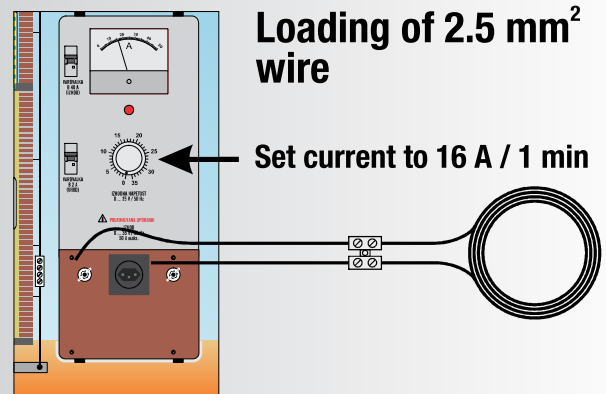
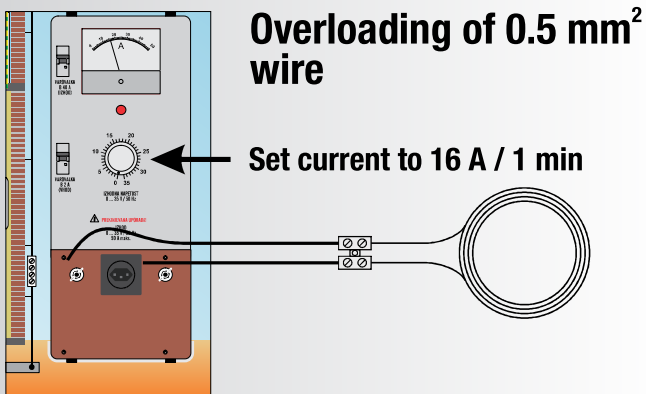
The Demoboard presents how to practically control one bulb with one, two or three switches.

The Demoboard is as a teaching aid intended for electro vocational schools, companies who are dealing with safety on electrical installations and appliances, firefighting organizations etc.

Presentation of a typical electrical installation with various demonstrations



Demonstration of various destructive/non-destructive effects



IMPORTANT FEATURES

- Instructions for all demonstrations attached.
- Supply from single phase schuko socket or from generator.
- Presentation of TN and TT protection system.
- Additional protection for critical rooms, for example bathroom.
- Demonstration of dangerous residual voltage.
- Demonstration of correct mechanical connection of powerful loads.
- Presentation and explanation of lightning system and lightning effect.

TECHNICAL DATA	
General	
Used functional standard	EN/IEC 60364
Used safety standards	EN/IEC 61010-1:2010 (Third edition) (Safety requirements for electrical equipment for measurement, control and laboratory use – General requirements)
Mains voltage	230 V +10/-15%, 50 Hz, CAT II 300 V
Max. current consumption	4 A
Mains connection	Schuko, cable length 2 m
Fuse replaceable by user	T4A/250V 5×20 mm
Dimensions	150 × 100 × 13 cm
Ingress protection	IP40 (except schuko sockets) IP20 schuko sockets
Form of execution	Stand alone or hung on a wall
Temperature working range	0 ... 40 °C
Temperature stocking range	-10 ... +50 °C
Humidity working range	10 ... 85 % relative humidity w/o condensation
Pollution degree	2
Protection class	I (protection conductor)
Weight	68 kg
Max. altitude	2000 m
Generator	
Power supply	Connected to internal mains voltage
Output voltage	Adjustable from 0 ... 35 V AC, galvanically separated
Output current capacity	≤ 20 A ... Continuously > 20 A ... Interrupted use Max. ratio loading / pause = 1 / 1 Max. loading time = 2 min
Fuse in primary side	Automatic B2A
Fuse in secondary side	Automatic B40A

SCOPE OF SUPPLY

1 pc Demoboard Electrical Installation	1 pc User Manual booklet in English
1 pc Mains cable Schuko to IEC 2 m	5 pcs Test wire 2,5 mm ² , 5 m, in reel
1 pc Test mains reel extension 20 m	5 pcs Test wire 0,5 mm ² , 5 m, in reel
2 pcs Connection lead 4 mm ² , 0,5 m (for connection of the load with heater to generator)	20 pcs Test wire 0,5 mm ² , 2 m
	2 pcs Connection lead 4 mm ² , 1 m (for connection of test objects to generator)



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