

# Adapter for testing vehicle charging stations

## EVSE-01

CAT II

300 V

IP40



### Type 2 connector

Measurement of single- and three-phase AC charging stations



### Communication connector

Works with Sonel MPI devices



### Rotary switches

Quick and simple state simulation of the connected object



## Quick and full diagnostics of charging stations

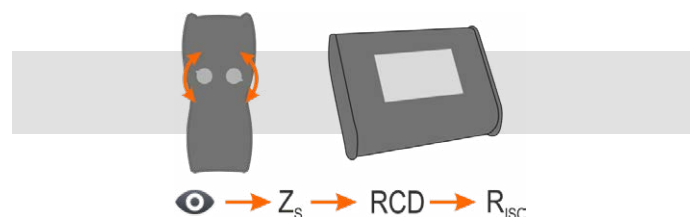
### Capabilities

Adapter allows to perform comprehensive **measurements of electric vehicle charging stations** - quickly and in accordance with applicable regulations. Simulating the charging cable (proximity pilot line - PP) and vehicle connection status (control pilot line - CP), it will bring the station into different operating states. This will enable **measurements in the field of electric shock protection**:  $Z_s$  fault loop impedance,  $R_{iso}$  insulation resistance and checking the parameters of RCD residual current devices.

To facilitate diagnostics, one of the EVSE-01 sockets is provided with **pulse width modulation signal (PWM)**.

### Application

The EVSE-01 adapter enables measurements of AC electric vehicle charging stations with **type 2 connector**. Tests for 1-phase and 3-phase stations are available - both with and without ventilation.



## Works with\*



MPI-540-PV  
MPI-540  
MPI-536  
MPI-535

MPI-530-IT  
MPI-530  
MPI-525  
MPI-520

MPI-507  
MPI-506  
MPI-502

\* the scope of measurements depends on the capabilities and technical parameters of each model.

## Technical specifications

measurement category according to EN 61010-1	CAT II 300 V
ingress protection according to EN 60529	IP40
pollution degree	2
input voltage	400 V (3-phase)
frequency	50 Hz, 60 Hz
simulation of charging cable PP	open circuit, 13 A, 20 A, 32 A, 63 A
vehicle connection simulation CP	state A vehicle not connected
	state B vehicle connected, not charging
	state C vehicle connected, charging without ventilation
	state D vehicle connected, charging with ventilation
	state E error - CP short to PE
socket types	<ul style="list-style-type: none"> <li>▪ measuring sockets: L1, L2, L3, N, PE</li> <li>▪ 1-phase socket</li> <li>▪ CP signal socket - PWM communication</li> </ul>
test lead (length)	EVSE 1 m
	MPI 0.5 m
operating temperature	-5...+45°C
storage temperature	-20...+60°C
dimensions	220 x 100 x 60 mm
weight	1.4 kg

## Functional comparison

	MPI-540-PV MPI-540 MPI-536 MPI-535	MPI-530-IT MPI-530 MPI-525 MPI-520	MPI-507 MPI-506	MPI-502
auto measurements	✓	-	-	-
automatic three-phase measurement via multiplug	✓	-	-	-
visual inspection	✓	-	-	-
fault loop $Z_{L-PE}$ $Z_{L-N}$ parameters measurement	✓	✓	✓	✓
6 mA RCD test	✓	-	-	-
RCD test	AC, A, F, B, B+, EV	AC, A, F, B, B+	AC, A	AC, A
insulation resistance $R_{iso}$ measurement	✓	✓	✓	-
measurements report	✓	✓	✓	✓

## Standard accessories



Carrying case  
WAFUTM6



User manual

