

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

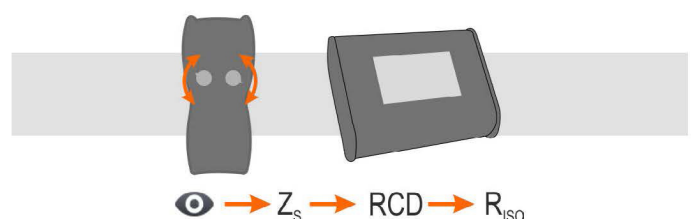
Capabilities

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-535



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



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
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	▪ measuring sockets: L1, L2, L3, N, PE ▪ 1-phase socket ▪ CP signal socket - PWM communication
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-535	MPI-530-IT MPI-530 MPI-525 MPI-520	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

