EVSE ADAPTER KEW 8602



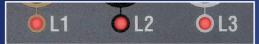


What you can do with KEW 8602

Mesufing Cantinals

PE, N, L1 (Single phase)
PE, N, L1, L2, L3 (Three phase)

Lights up when the voltage is LIVE.



Opsignal output terminals o

Terminals for measuring CP signals with oscilloscope, etc.

PEPRE-TEST O

Touch pad to test for dangerous voltages present on the PE.

EP error simulation button

The case of an earth fault in the CP line can be simulated. While this button is pressed, the EVSE output is stopped.

PE error simulation button

This button can be used to simulate the case of a broken earth wire. While this button is pressed, the EVSE output is stopped.



GP(Control Pilot) State selector

By operating this selector, the connection state of the vehicle can be simulated. Actual Size

PP(Proximity Pilot) state selector

This selector can be used to simulate the rated capacity of the cable in the Untethered EVSE.

Test overview for EVSE using the KEW 6516 series

*Can be used with other insulation resistance testers, DMMs, etc.



Tests conducted under dead-line conditions (CP STATE A)

Insulation test (for cable)

By connecting the test leads to the adapter terminal, the insulation resistance of cables can be measured for both single phase and three phase EVSE. (*Insulation measurement between wires (N, L1, L2, L3) other than PE is not possible.)

Earth Continuity test (200mA)

It is possible to check continuity between the PE terminal of the adapter and the outer metal part or the earth of the electrical circuit.

Earth test (3-wire & 2-wire)

The resistance of the earth to which the EVSE is connected can be measured.



Tests conducted under live line conditions (CP STATE C, D)

Voltage

Voltage/frequency between each terminal can be measured.

Phase rotation

Phase rotation of three phase power supply can be measured.

Loop Impedance (Loop ATT function)

Loop impedance between Line-Earth can be measured.

Typical measuring instruments are designed to make Loop impedance measurements on circuits where RCDs are installed, at currents that do not trip the RCD, which is rated at 30mA.

However, the 6mA DC RCDs built into the EVSE often trip even at this current, so the KEW 6516 series has a dedicated EVSE range that measures Loop impedance at even lower currents.

RCD test

The EVSE's built-in 6mA DC RCD can be tested for operation. Polarity (+,-), x1/2, x1 and x5 tests can be auto tested. Type AC, A, B and F RCDs can also be tested.



250V PAT OFF

Ø 01:04

T	28/11/2027 16:25		
0.09 a			
2.54kA	<100.0v		
0.10 n	Hz		
2.25kA	L-PEO L-NO AO		
	2.54 _{kA} 0.10 g		

RCD			28	/11/28 16:12
	0°(+)	180°(-)	UL	50V
		384.6 ms		
x1/2 >	2000 ms	>2000 ms		
AC38mA 1	46.5ms	156.3 _{ms}	<100.	0 v
		37.2 ms		Hz
	-15	L-PE	ON-1	1
AHTO)	TYPE E	V	

Connection to Type 1 EVSE

The EVSE of Type 1 can be tested by using the optional conversion adapter (KEW 8603).



Maths socket

Load current tests up to 10A can be carried out with this socket.

*Sockets are available in EU and UK types.



KEW 8602 Specification

Plug	IEC 62196-2 Type 2	
Rated voltage	AC 250V Max.(Single-phase) AC 430V Max.(Three-phase)	
Rated Frequency	50/60Hz	
Rated voltage/ current of mains socket	AC 10A/250V	
Fuse rating	AC 10A/250V, \$\phi 5 \times 20mm	
Operating temp. & humidity range	0 - 40°C, RH 80% or less (no condensation)	
Storage temp. & humidity range	-10 – 50°C, RH 80% or less (no condensation)	
Applicable standards	IEC 61010-1 CAT II 300V, IEC 61010-2-030, IEC 61851-1, IEC 60529(IP40)	
Altitude	2000m or less	
Cable length	Approx. 250mm	
Dimension	Unit: 172(L) x 105(W) x 57(D) mm Plug part: 175(L) x 60(W) x 53(D) mm	
Weight	Approx. 840g	
Accessories	8930 (Fuse) 9202 (Carrying case) Instruction manual	
Optional Accessories	8603 (TYPE1 to TYPE2 conversion adapter)	

Measurable tests by KEW 8602 only or in combination with MFT (KEW 6516/6516BT)

	8602 only	8602+6516 or 6516BT(MFT)		
CP state	A, B, C, D	A, B, C, D		
PP state	OPEN, 13A, 20A, 32A, 63A	OPEN, 13A, 20A, 32A, 63A		
Terminal	E, N, L1, L2, L3, CP	E, N, L1, L2, L3, CP		
PE PRE-TEST	✓	✓		
CP Error	✓	✓		
PE Error	✓	✓		
Mains socket	10A/250V	10A/250V		
Continuity	-	✓		
Insulation	-	(between conductors and earth)		
Earth	-	√ (2W, 3W)		
Loop impedance	-	✓		
Volts	-	✓		
RCD	-	(AC, A, B, F, 6mA DC)		
Phase rotation	-	✓		

Accessories



Optional Accessories



Kits



KEW 6516-EV2

KEW 6516×1, KEW 8602×1



KEW 6516BT-EV2

KEW 6516BT×1, KEW 8602×1









Please read the "Safety Warnings" in the instruction manual supplied with the instrument thoroughly and completely Safety Warnings: Failure to follow the safety rules can cause fire, trouble, electrical shock, etc. Therefore, make sure to operate the instrument on a correct power supply and voltage rating marked on each instrument.

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