



EVSE ADAPTER KEW 8602



What you can do with KEW 8602

· Measuring

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

Lights up when the voltage is LIVE.

Opsignal output terminals \circ

Terminals for measuring CP signals with oscilloscope, etc.

PEPRINTS

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

OP arorsimilation button \circ

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 standardon 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.



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

Actual Size

OP (Control Pilot) & PP (Proximity Pilot)

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.





LOOP A	IT	28/11/202 16:25
	0.	09 ₀
PFC	2.54kA	<100.0v
L-N	0.10 a	Hz
PSC	2.25kA	L-PE© L-N© A©
	EV Pulse ON	Normal I Limit

RCD			28	/11/282 16:12
	0°(+)	180°(-)	UL	50V
DC6mA 43	39.6 ms	384.6 ms		
x1/2 >2	2000 ms	>2000 ms		
		156.3 _{ms}	<100.	0 v
ACTOMA.		37.2 ms		Hz
			D L-NO	A (
AUTO		TYPE E	V	

Connection to Type 1 EVSE

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



Mathematical

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

*Sockets are available in EU and UK types.



KEW 8602 Specification

IEC 62196-2 Type 2	
AC 250V Max.(Single-phase) AC 430V Max.(Three-phase)	
50/60Hz	
AC 10A/250V %8602(EU):Type E socket, 8602(UK):Type BF socket	
AC 10A/250V, φ5×20mm	
0 – 40°C, RH 80% or less (no condensation)	
-10 – 50°C, RH 80% or less (no condensation)	
IEC 61010-1 CAT II 300V, IEC 61010-2-030, IEC 61851-1, IEC 60529(IP40)	
2000m or less	
Approx. 250mm	
Unit: 172(L) x 105(W) x 57(D) mm Plug part: 175(L) x 60(W) x 53(D) mm	
Approx. 840g	
8930 (Fuse) 9202 (Carrying case) Instruction manual	
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, 64A	OPEN, 13A, 20A, 32A, 64A		
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	-	✓		

Included 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: for correct use. 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.

For inquires or orders:



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