Quality and reliability is our tradition

KYORITSU

EVSE ADAPTER
KEW 8612

The market's most intuitive testing adapter for hassle-free Commissioning, Maintenance and Troubleshooting of an EV charge point - EVSE

(Electric Vehicle Supply Equipment)

Innovative New Design: No cables and Single Slide Switch

- Easy to simulate CP state of an EVSE just by sliding the CP Mode switch (A, B, C, and [E] Error)
- L1, L2, L3, N and PE measuring terminals allowing many electrical measurements on the EVSE under test
- CP signal terminal for CP signal monitoring
- Status LEDs for immediate indication of the presence of Live voltage and CP state

Detailed explanation of the product is available on our website.



Front view

CE

KYORITSU ELECTRICAL INSTRUMENTS WORKS, LTD.

www.kew-ltd.co.jp

What you can do with KEW 8612

Instant Status LEDs

Get immediate visual feedback.
Clear live voltage presence indicators and real-time CP status.

CP Error simulation

Can be performed by pushing the CP Mode switch (spring loaded) into position [E].

CP Mode switch

Simulate EV states effortlessly by sliding the CP Mode switch to test states A, B and C.

A: Electric vehicle not connected
B: Vehicle connected, not ready to charge
C: Electric vehicle connected, ready to charge



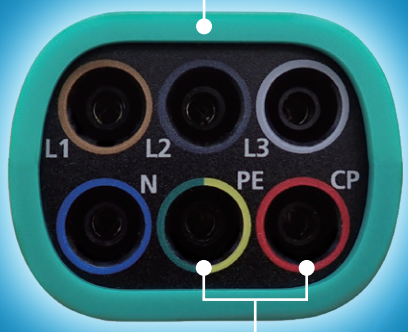
Actual size

Measuring terminals

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

CP signal output terminals

Terminals for measuring CP signals with oscilloscope, etc.



Output terminals view

Connection to Type 1 EVSE

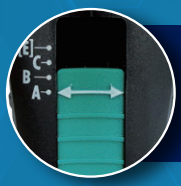
The EVSE of Type 1 can be tested by using the optional conversion adapter (KEW 8603).



Test overview for EVSE using the KEW 6516 series

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

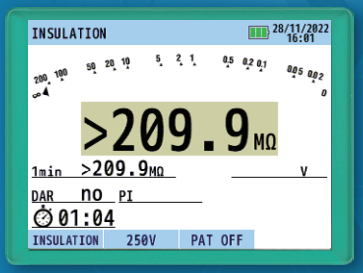




Tests conducted under dead-line conditions (CP STATE A)

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.)

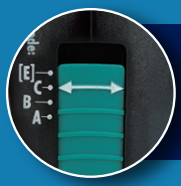


Earth Continuity test (200 mA)

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 (2-wire & 3-wire)

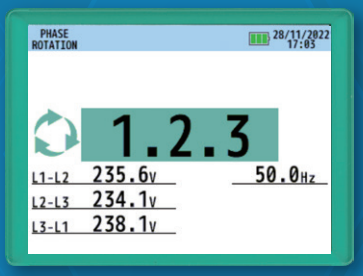
The resistance of the earth to which the EVSE is connected can be measured.



Tests conducted under live line conditions (CP STATE C)

Voltage

Voltage/frequency between each terminal can be measured.

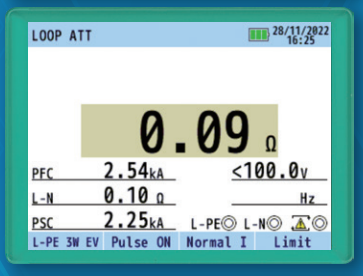


Phase rotation

Phase rotation of three-phase power supply can be measured.

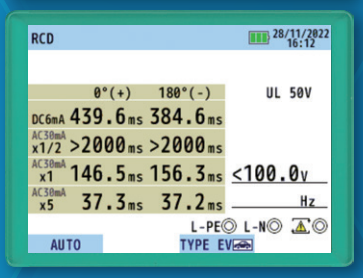
Loop Impedance (Loop ATT function)

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 30 mA.
However, the 6 mA 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 6 mA DC RCD can be tested for operation.
Polarity (+,-), ×1/2, ×1 and ×5 tests can be auto tested.
Type AC, A, B and F RCDs can also be tested.



KEW 8612 Specification

Plug	IEC 62196-2 type 2
Rated voltage	250 V AC Max.(Single-phase) 430 V AC Max.(Three-phase)
Rated frequency	50/60 Hz
Rated current	10 A AC Max.
Operating temperature & humidity range	0 to 40 °C, relative humidity 80% or less (no condensation)
Storage temperature & humidity range	-10 to 50 °C, relative humidity 80% or less (no condensation)
Applicable standards	IEC 61010-1 CAT Ⅱ 300 V, IEC 61010-031
Altitude	2000 m or less
Dimension	224(L) × 59(W) × 115(D) mm
Weight	Approx. 300 g
Accessories	Instruction manual
Optional accessories	8603 (TYPE1 to TYPE2 conversion adapter)

Optional accessory



8603
TYPE1 to TYPE2
conversion adapter

List of tests that can be carried out using EVSE ADAPTER and MFT

		8612		8602	
		 Type 2		 Type 2	
	CP STATE	6516/6516BT	6514BT	6516/6516BT	6514BT
CP state	A/B/C	✓			
	D	-		✓	
PP state	C	32 A		OPEN, 13 A, 20 A, 32 A, 63 A	
Measurement terminal	-	PE, N, L1, L2, L3, CP			
LED	C	L1, L2, L3 (Live)/ B, C (CP state)		L1, L2, L3 (Live)	
PE PRE-TEST	A	✓	-	✓	
CP error	C	✓			
PE error	C	-		✓	
Mains socket	C	-		10 A/250 V	
Checking CP signal	A/B/C/D	-	✓ (A, B, C)	-	✓
Insulation resistance	A	✓ (between conductors and earth)			
Earth resistance	C: 2-wire A: 3-wire	✓ (2-wire, 3-wire)			
Earth continuity	A	✓ (200 mA)			
Loop impedance	C	✓ (2-wire, 3-wire)	✓ (2-wire)	✓ (2-wire, 3-wire)	✓ (2-wire)
Volts	C	✓			
RCD	C	✓ (AC, A, B, F, 6 mA DC)	✓ (AC)	✓ (AC, A, B, F, 6 mA DC)	✓ (AC)
Phase rotation	C	✓			
EVSE programable Auto test	-	-	✓	-	✓

Safety Warnings :

Please read the “Safety Warnings” in the instruction manual supplied with the instrument thoroughly and completely 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 inquiries or orders :

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