

NEW

Quality and reliability is our tradition
KYORITSU

MULTI FUNCTION INSTALLATION TESTER KEW 6514BT

Versatile tester supporting various electrical testing for completion inspections, maintenance and troubleshooting.

EVSE dedicated test function offers extra by combination use of EVSE ADAPTER.

(EVSE : Electric Vehicle Supply Equipment)



Electrical tests

Insulation

Earth

Continuity

Motor rotation

2-Wire Loop

RCD

Phase rotation

Frequency

AC V

SPD(Varistor)

Tests dedicated for EVSE

Checking CP signal

Latch Locking

Programmable Auto test



KYORITSU ELECTRICAL INSTRUMENTS WORKS, LTD.

www.kew-ltd.co.jp

Offers various tests for electrical installation

Loop 2-Wire

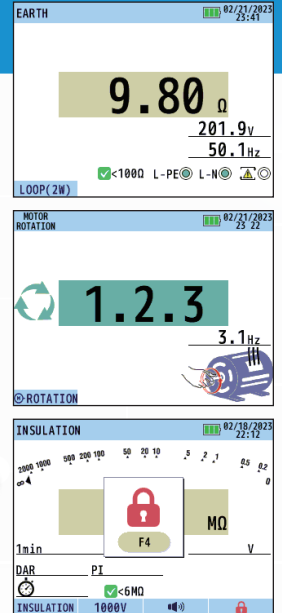
KEW 6514BT is adopting unique measurement method "Loop 2-Wire": it makes possible to perform Loop impedance test by using 2 wires while using 3 wires is usually required at Loop impedance test. Small test current of 7mA doesn't trip high-sensitive RCD (rated to 15mA).

Motor rotation check

Without voltage input, motor connection can be checked with electromotive force occurs when turning the axis of three-phase motor by hand.

Safety lock function for insulation resistance range

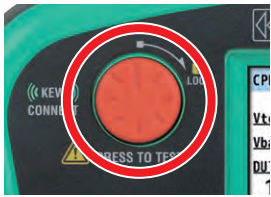
Possible to set for each range with special application. While the safety lock is enabled, no voltage is outputted from KEW 6514BT: helpful to prevent unintentional voltage output.



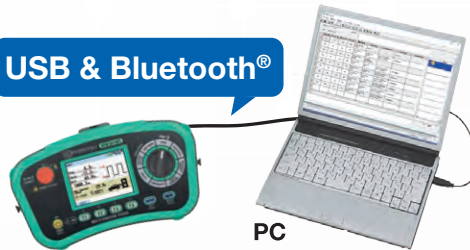
Auto memory

Setting this function to ON allows automatic save of measured data at every test. Data is saved in the internal memory (999 results max.)

Test can be performed by pressing the test switch on KEW 6514BT or the switch on the remote test lead. Pressing and turning the test switch on the instrument locks the switch in the continuous operating position.



USB & Bluetooth®



PC



Measured data saved in the internal memory can be transferred to PC via USB adapter (8212-USB) or Bluetooth® and it is possible to manage the measured data and print complete test report.
* 8212-USB is an optional accessory.

Measurement Data Management app

Easy to check the measured result on tablet or smartphone via Bluetooth® by installing and using "KEW Smart Advanced" app. User template (xlsx format) can be uploaded to the device and the measured values are automatically entered. Using this application enables: setting each function to ON / OFF and change of settings such as comparator value for each function easily.

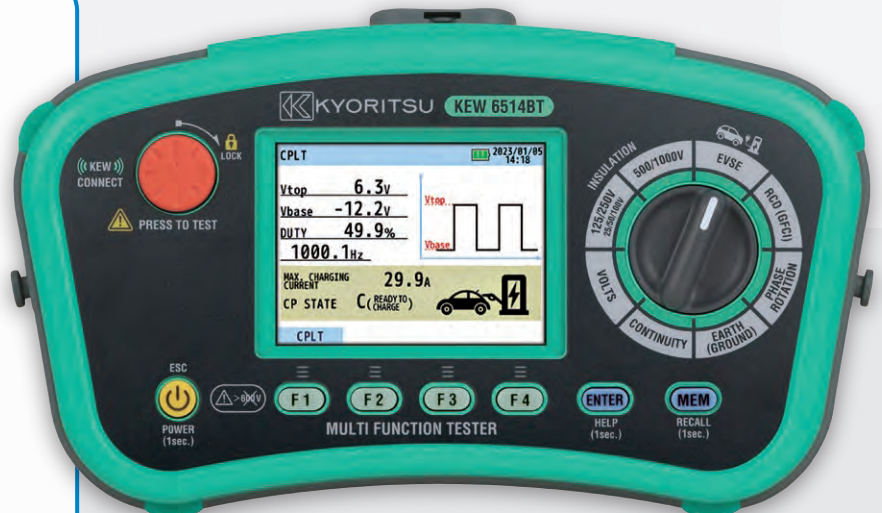
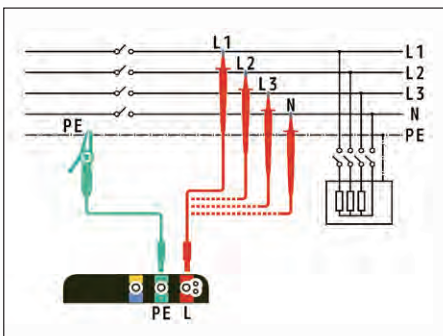


KEW Smart Advanced



Color LCD Display

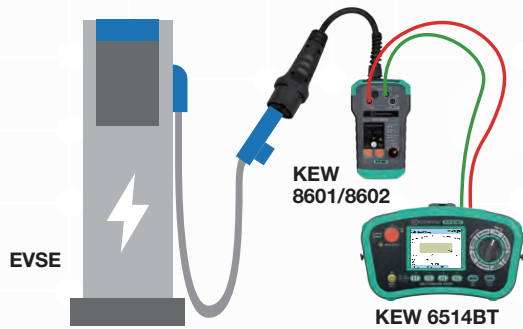
- All the test data is shown in one large colored screen.
- HELP function will show how to connect the instrument according to the function selected.



Dedicated function for EVSE

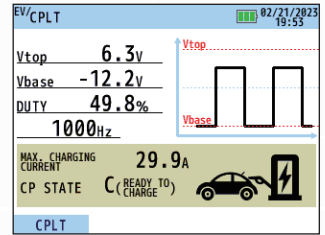


Use with optional EVSE ADAPTER allows various tests dedicated for EVSE.



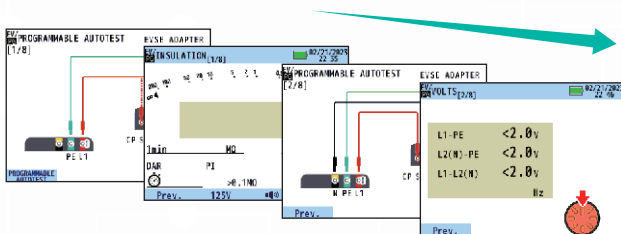
CP signal analysis function

By connecting KEW 6514BT to the CP terminal on EVSE ADAPTER, CP signal can be analyzed. CP STATE and chargeable current are automatically calculated based on the voltage and duty ratio and displayed on the LCD.



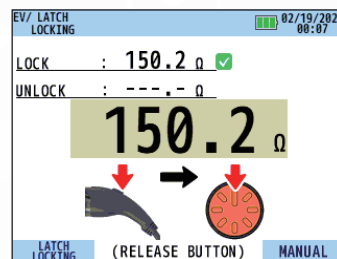
Programmable Auto test

Possible to perform various tests available on the EVSE test function. Combination and sequence of tests can be customized by using special application. In addition, it is possible to check connection diagrams on help screen prior to test and helpful to perform necessary tests just by following the displayed guidance.



Resistance measurement of latch switch circuit

It is possible to check if the latch switch of Type 1 EVSE is operating properly by measuring the circuit resistance with the combination of KEW 8601, and then indicates the result with good or bad symbol.



KEW 6514BT comes complete with everything you need for testing an electrical installation

Accessories



Optional accessories



MODEL 7272
Precision measurement cord set
2 cord reels with test leads,
2 spikes, an earth test lead,
a carrying case.



MODEL 8212-USB
USB adapter



MODEL 8259
Adapter for
measurement terminal
[red, yellow, green/1 set]



KEW 8601
EVSE ADAPTER
TYPE1 plug



KEW 8602
EVSE ADAPTER
TYPE2 plug

MULTI FUNCTION TESTERS Selection Guide

		KEW 6514BT	KEW 6516	KEW 6516BT
VOLT		600V		
Continuity		✓		
Earth		2-wire / 3-wire		
RCD	Function	x1/2, x1, Ramp	x1/2, x1, x5, Ramp, Auto, Uc	
	RCD type	AC(G)	AC/A/F/B(G/S)	
	Test current	15/30/50/100/200/500mA	10/30/100/300/500/1000mA /variable	
PSC/PFC		-	✓	
EVSE Test	RCD (Compatible with RCD for EVSE)	-	✓ (DC 6mA)	
	LOOP (Compatible with RCD for EVSE)	-	✓ (L-PE:4mA)	
	Checking CP signal	✓	-	
	Latch switch circuit resistance measurement	✓	-	
Programmable Autotest		✓	-	
Insulation resistance	Test Voltage	25/50/100/125/250/500/1000V	100/250/500/1000V	
	Loop Impedance	Loop ATT 2wire	✓ (L-PE:7mA)	✓ (L-PE:15mA)
Loop ATT 3wire		-	✓	
Loop HIGH		-	✓	
Phase rotation		✓		
Motor rotation check		✓	-	
Auto memory		✓	-	
Communication interface	PC	✓		
	Bluetooth®	✓	-	✓


● **MULTI FUNCTION TESTER KEW 6514BT Specification**

Insulation resistance								SPD(Varistor)
Test voltage	25V	50V	100V	125V	250V	500V	1000V	Max.1000V
Measuring range	2.000/20.00MΩ (Auto-ranging)		2.000/20.00/200.0MΩ (Auto-ranging)		2.000/20.00/200.0/1000MΩ (Auto-ranging)		2.000/20.00/200.0/2000MΩ (Auto-ranging)	
Accuracy	±2%rdg±2dgt (0.100 to 10.00MΩ) ±5%rdg (other)		±2%rdg±2dgt (0.100 to 25.0MΩ) ±5%rdg (other)		±2%rdg±2dgt (0.100 to 50.0MΩ) ±5%rdg (other)		±2%rdg±2dgt (0.100 to 100.0MΩ) ±5%rdg (other)	
Rated current	1.0 to 1.2mA @0.025MΩ(25V) @0.05MΩ(50V)		1.0 to 1.2mA @0.1MΩ(100V) @0.125MΩ(125V)		1.0 to 1.2mA @0.25MΩ		1.0 to 1.2mA @0.5MΩ	
Short circuit current	1.5mA max							-
RCD				EVSE(EV charger)				
Rated voltage				85 to 440V(50/60Hz)		Measuring range		
Function				×1/2, ×1, Ramp		Vtop		
RCD type				AC(G)		Vbase		
Accuracy				x1/2 -8 to -2%		Frequency		
Trip current				x1 +2 to +8%		Duty		
Trip time				Ramp -4 to +4%		Max. charging current		
				x1/2 ±1%rdg±2ms		Accuracy		
				x1		Vtop		
						Vbase		
						Frequency		
						Duty		
						Max. charging current		
						Varies depending on the accuracy of duty measurement.		
Continuity				Loop impedance(L-PE(2-wire))				
Range				20.00/200.0/2000Ω (Auto-ranging)				
Open circuit voltage (DC)				7 to 14V				
Measurement current				200mA or more(2Ω or less)				
Accuracy				±2.0%rdg±8dgt				
Earth				Phase rotation				
Range				20.00/200.0/2000Ω(Auto-ranging)				
Accuracy				±2%rdg±0.08Ω(20.00Ω) ±2%rdg±3dgt(200.0/2000Ω)				
Volts				Measuring range				
Range				300.0/600V(Auto-ranging)				
Measuring range				Volts 2 to 600V				
Accuracy				Frequency 45 to 65Hz				
				Volts ±2%rdg±4dgt				
				Frequency ±0.5%rdg±2dgt				
General				Applicable standards				
				IEC 61010-1, IEC 61010-2-030 CAT IV 300V / CAT III 600V Pollution degree 2, IEC 61010-2-034 IEC 61557-1,2,3,4,5,6,7,10, IEC 60529(IP40)				
				Communication interface				
				USB, Bluetooth® 5.0				
				Power source				
				LR6(AA)(1.5V) × 8				
				Dimension				
				136(L) × 235(W) × 114(D)mm				
				Weight				
				Approx.1300g (including batteries)				
				Accessories				
				7281(Test leads with remote control switch), 7247(Distribution board test lead) 7228A(Earth resistance test leads), 8041(Auxiliary earth spikes[2spikes/1set]) 8017B(Extension prod long), 8923(Fuse[0.5A/600V]) × 1 (included), 1 (spare), 9084(Soft case) 9142(Carrying case),9151(Shoulder strap), 9199(Shoulder pad), LR6(AA) × 8, Instruction manual				
				Optional accessories				
				8259(Adapter for measurement terminal), 7272(Precision measurement cord set) 8212-USB (USB adapter), 8601(EVSE ADAPTER), 8602(EVSE ADAPTER)				

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*Android is a trademark or registered trademark of Google LLC.

*iOS is a trademark or registered trademark of Cisco Technology, Inc. in the United States and other countries.

 **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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