



# MULTI FUNCTION INSTALLATION TESTER KEW 6514BT



# Offers various tests for electrical installation

# Loop 2-Wire

KEW 6514BT has an advanced measurement method called "Loop 2-Wire". It can carry out Loop impedance test by using 2 wires only, while using 3 wires is usually required. Its small test current of 7mA does not trip even the 15mA RCDs!

## Motor rotation check

Without power supply, the motor connection can be checked by electromotive force generated by spinning the three-phase motor axis (shaft) by hand or other means.

# Safety lock function for insulation resistance range

This safety function prevents the unintentional voltage presence for insulation resistance range. This safety function can be set on each range by our special application.



# Auto memory

Activating this function, KEW 6514BT automatic saves measured data at every test. Up to 1000 measured data can be saved in the internal memory.

Test can be carried out 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, you can have continuous test operating.







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.
- \* Please download the software from our website.

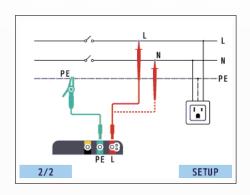
# Measurement Data Management app

"KEW Smart Advanced" application facilitates the check of any measured result on tablet or smartphone via Bluetooth®. User template (xlsx format) can be uploaded to the device and the measured values are automatically entered. Using this application, KEW 6514BT allows to activate or not each function and easily change the settings such as comparator value for each function.



# **Color LCD Display**

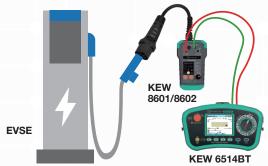
- All the test data is shown in one large colored screen.
- HELP function will show how to connect the instrument according to the function selected.





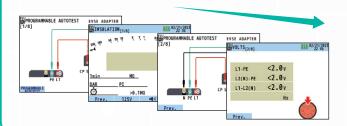
# **Dedicated function for EVSE**





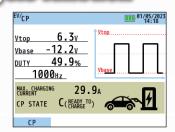
# **Programmable Auto test**

There is an EVSE dedicated function where you can carry out various tests. Combination and sequence of tests can be customized by using our special app. The instrument supports you showing how to make the connections on its screen prior to test and also gives a step-by-step guide to carry out all the necessary tests.



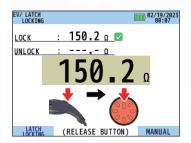
# **CP** signal analysis function

Connecting KEW 6514BT to the CP terminal of the EVSE ADAPTER, CP signal can be deeply analysed as using an oscilloscope. Also CP STATE and charge current are automatically calculated and shown on the instrument display.



# Resistance measurement of latch switch circuit

Using KEW 6514BT in combination with EVSE ADAPTER KEW 8601, you can measure the circuit resistance and check if the latch switch of EVSE with type1 connector operates properly, with PASS or FAIL results.



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

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

MODEL 8212-USB USB adapter



KEW 8601 EVSE ADAPTER TYPE1 plug



KEW 8602 EVSE ADAPTER TYPE2 plug

Se	election Guid	le	KEW 6514BT	KEW 6516	KEW 6516BT			
VOLT			600V					
Conti	nuity		V					
Earth			2-wire / 3-wire					
RCD	Function		x1/2, x1, Ramp x1/2, x1, x5, Ramp, Au					
	RCD type		AC(G)	AC/A/F/B(G/S)				
	Test current		15/30/50/100/ 200/500mA		0/500/1000mA iable			
PSC/PFC			-	<b>✓</b>				
EVSE Test	RCD (Compatible with RCD for EVSE)		-	✓ (DC 6mA)				
1631	LOOP (Compatib	ole with RCD for EVSE)	-	✓ (N-PE:4mA)				
	Checking CP	signal	V	-				
	Latch switch	circuit resistance	V	-				
	Programmab	le Autotest	<b>~</b>	-				
Insula resist		Test Voltage	25/50/100/125/ 250/500/1000V	100/250/5	500/1000V			
Loop	Impedance	Loop ATT 2-wire	✓ (L-PE:7mA)	✓(L-PE	E:15mA)			
		Loop ATT 3-wire	-	•	/			
		Loop HIGH	-	,	/			
Phase	Phase rotation		<b>v</b>					
r	Motor rotation check		<b>∨</b>	-				
Auto	memory		V	-				
Comr	nunication	USB	V					
interiace		Bluetooth®	~	-	~			

### MULTI FUNCTION TESTER KEW 6514BT Specification

sulation res	istance										SPD(Varistor)	
Test voltag	е		25V 50V			25			500V	1000V	1000V max.	
Range			2.000/20.00MΩ (Auto-ranging)	2.000/20.0 (Auto-rang		OMΩ			2.000/20.00/ 200.0/1000MΩ (Auto-ranging)	2.000/20.00/ 200.0/2000MΩ (Auto-ranging)	0 to 1000V (goes up by 1V	
Accuracy									1(	±5%rdg±5dg		
First effective measurement range		0.100 to 10.00MΩ   0.100 to 25.0MΩ   ±2%rdg±2dgt			0.100 to 50.0MΩ   0.100 to 100.0MΩ		0.100 to 1000MΩ	_				
Second effective measurement range			$0.050$ to $0.099M\Omega$									
			±2%rdg±4dgt									
					50.1 to 180.0MΩ		иΩП	100.1 to 900MΩ	1001 to 1800MΩ	-		
					, , , , , , , , , , , , , , , , , , , ,				1.00.10	_		
Rated current			1.0 to 1.2mA @0.025MΩ(25V) @0.05MΩ(50V)	1.0 to 1.2n @0.1MΩ(10 @0.125MΩ	00V)	1.0 to 1.2mA @0.25MΩ			1.0 to 1.2mA @0.5MΩ	1.0 to 1.2mA @1MΩ	_	
Short circu	it current		1.5mA max								_	
CD			·			EV	/SE Functi	on			<u>'</u>	
Rated voltage			85 to 440V(50/60Hz)		] [	Measuring V		top 2.0 to 15.0V				
			, , ,		1	range	Vbase		-15.0 to -2.0V			
Function			×1/2, ×1, Ramp						quency	980 to 1020Hz		
			15/30/50/100/200/500mA					Dut		10.0 to 96.0%		
RCD type	RCD type		AC(G)						arging current			
•	I <del></del> .	1			/	Accuracy V			±4dgt			
Accuracy	Trip current	x1/2	-8 to -2%					Vba		10.50/ 1 14.1		
		x1	+2 to +8%						quency	±0.5%rdg±4dg	it	
	Tuin 41	Ramp	-4 to +4%					Dut				
	Trip time	x1/2 x1	±1%rdg±2ms					arging current	Depends on the accuracy of the Duty cycle			
ontinuity						Lo	op impeda	ance	e(L-PE(2-wire))			
Range			20.00/200.0/2000Ω (Auto-ranging)		Rated voltage				85 to 260V(50/60Hz)			
Open circuit voltage (DC)			7 to 14V		Impedance range		200.0/2000Ω					
Measurement current			200mA or more(2Ω or less)		Accuracy		±3%rdg±10dgt					
Accuracy			±2.0%rdg±8dgt							L-PE:7mA		
arth					Phase rotation			0.1 0000 //45 1	0511)			
Range			20.00/200.0/2000Ω(Auto-ranging)		ing)	Measuring Phase rotation Range Motor rotation			3 to 600V(45 to 65 Hz)			
Accuracy			$\pm 2\%$ rdg $\pm 0.08\Omega(20.00\Omega)$ $\pm 2\%$ rdg $\pm 3$ dgt( $200.0/2000\Omega$ )		l  -		- Interest retailers		0.1 to 2V(1 to 10 Hz)  Clockwise direction:			
olts			/or ag=oagt(20	3.0, 2000	,		Indication			"1.2.3" and cloc	kwise phase	
Range			300.0/600V(Auto-ranging)				sequence icon					
Measuring	leasuring Volts		2 to 600V				Counterclockwise direction: "3.2.1" and counterclockwise					
range	inge Frequenc		45 to 65Hz							phase sequence icon		
Accuracy	Volts		±2%rdg±4dgt							prideo ooquorio	-	
	Frequenc	У	±0.5%rdg±2dgt									
eneral Applicable	standards	3	IEC 61010-1, IEC	61010-2-0	30 CAT	IV :	300V / CA	AT II	600V Pollution de	egree 2, IEC 61010	0-2-034	
			IEC 61010-1, IEC 61010-2-030 CAT ▼ 300V / CAT ■ 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*1 LR6(AA)(1.5V) × 8									
Power source Dimension			$136(L) \times 235(W) \times 114(D)$ mm									
Weight			Approx.1300g (including batteries)									
Accessories			7281(Test leads with remote control switch), 7247(Distribution board test lead) 7288(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), Batteries, Instruction manual									
Optional accessories			8259(Adapter for measurement terminal), 7272(Precision measurement cord set) 8212-USB (USB adapter), 8601(EVSE ADAPTER)									

<sup>\*1</sup> Some countries regulate the compliance with their Radio Law of the products equipped with Bluetooth®. Please confirm it with your distributor before purchasing our products equipped with Bluetooth®.

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



Please read the "Safety Warnings" in the instruction manual supplied with the instrument thoroughly and completely Safety Warnings: If the instruction maintains supplied with the instruction maintains to operate the instrument on a correct power supply and voltage rating marked on each instrument.

### For inquiries or orders:



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www.kew-ltd.co.jp

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<sup>\*</sup>Android is a trademark or registered trademark of Google LLC.