



Quality and reliability is our tradition

KYORITSU

# MULTIFUNCTION INSTALLATION TESTERS

## KEW 6516/6516BT

***A lot of Testing Power in the hands of Electrical Installation Professionals!***



### Insulation

100/250/500/1000V

### Loop

2/20/200/2000Ω

### RCD

10/30/100/300/500/1000mA

### PSC

2000A/20kA

### PFC

2000A/20kA 2000A/50kA

### Earth

20/200/2000Ω

### ACV

300V/600V

### Continuity

20/200/2000Ω

### Phase rotation

### Frequency

### SPD (Varistor)

### PAT

### Communication interface

#### USB



KEW Report

#### Bluetooth®

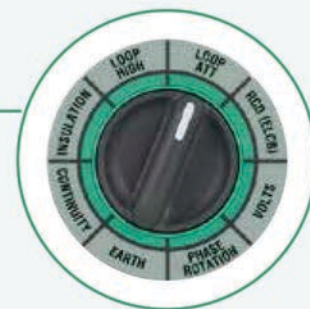


KEW Smart\*



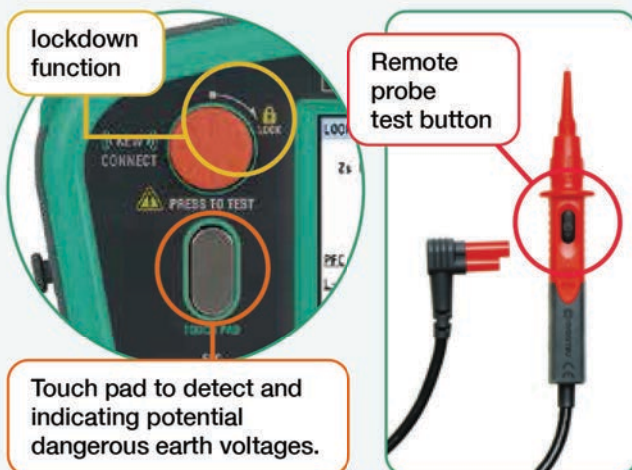
## Operation in 3 simple steps

- ✓ Set the rotary dial to your testing range.
- ✓ Connect the instrument to the installation under test.
- ✓ Press the test button.



## Hands free testing

*By remote probe or using the Lockdown function of the test button.*



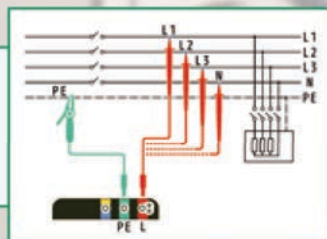
## Large LCD

*All the test data is shown in one large colored screen.*



## Anti-Trip Technology (with 2 & 3 wire)

For no trip LOOP L-PE testing on all RCDs.  
With 3 wire (L, N, PE), to get the best accuracy readings.  
With 2 wire only, very useful in case of no Neutral (i.e. 3-phase motor lines).

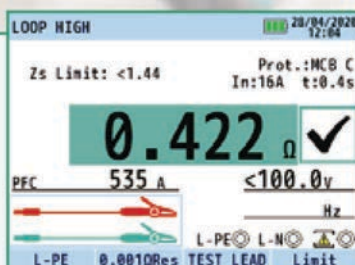


## HELP Key

HELP function will show how to connect the instrument according to the function selected.

## 0.001 resolution

Thanks to high test current of 25A, the Loop Impedance Phase to Earth is measured with high resolution of 0.001 ohm. This can be useful when testing in the main switchboard closer to the transformer.



Loop test from a wall socket



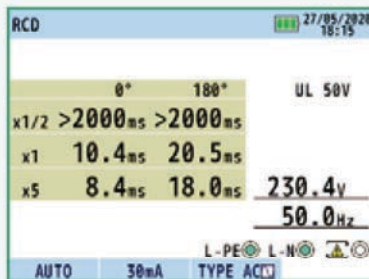
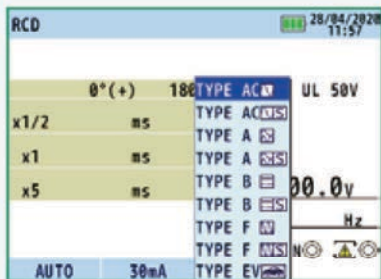
Continuity check of equipotential bonding



# Testing Power in the hands of Electrical Installation Professionals!

## Wide variety of RCDs can be tested

Type AC, A, F, B (General & Selective) EV and Variable RCDs. Single and Auto test, Ramp test and Contact voltage.



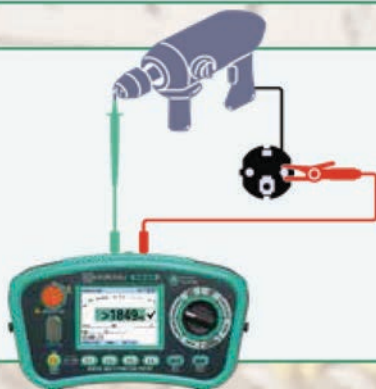
## SPD test

SPD (Surge Protection Device) which contains varistor can be tested measuring the tripping voltage without damage to it.

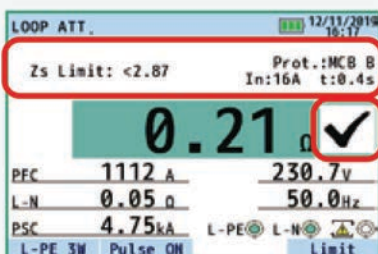


## PAT test

PAT test (PAT = Portable Appliance Tester) It is possible to check the insulation resistance and earth bond continuity of portable appliances for class I and II.



## Zs/Ra Limit



The verification of safety requirement on an electrical installation is simplified by using Zs/Ra Limit function. This function will automatically check if the measured loop impedance for TN (or earth loop for TT) is low enough to trip (disconnect) the MCB / Fuse / RCD giving the result of PASS(✓) or FAIL(x) on the KEW 6516 display.

## Connectivity

KEW 6516 can download the test data by connecting the USB adaptor (Model 8212-USB) and then print complete Test Reports by a PC. While KEW 6516BT can transfer the test data to a Tablet or Smartphone via Bluetooth. Such test data can be saved, shared and sent by email. The USB adaptor can also be ordered as an option.



## Included accessories



**KEW 6516 and KEW 6516BT come complete with everything you need for testing an electrical installation**

## Optional Accessories





# KEW 6516/6516BT Specifications

Insulation resistance					SPD(Varistor)			
Test voltage		100V	250V	500V	1000V	Max.1000V		
Measuring ranges		2.000/20.00/200.0MΩ (Auto-ranging)		20.00/200.0/1000MΩ (Auto-ranging)	20.00/200.0/2000MΩ (Auto-ranging)	0-1000V(goes up by 1V)		
Accuracy		±2%rdg±6dgt (2.000/20.00MΩ) ±5%rdg±6dgt (200.0MΩ)		±2%rdg±6dgt (20.00/200.0MΩ) ±5%rdg±6dgt (1000MΩ)	±2%rdg±6dgt (20.00/200.0MΩ) ±5%rdg±6dgt (2000MΩ)	±5%rdg±5dgt		
Rated current		1.0-1.2mA @0.1MΩ	1.0-1.2mA @0.25MΩ	1.0-1.2mA @0.5MΩ	1.0-1.2mA @1MΩ	—		
Short circuit current		1.5mA max				—		
Loop impedance								
Function		LOOP ATT L-PE/L-N(3wire)		L-PE(2wire)	LOOP HIGH L-PE(0.01ΩRes)	L-PE(0.001ΩRes)	L-N/L-L	
Rated voltage		100-260V(50/60Hz)		48-260V(50/60Hz)	48-260V(50/60Hz)	100-260V(50/60Hz)	48-500V(50/60Hz)	
Impedance range		20.00/200.0/2000Ω (Auto-ranging)		20.00/200.0/2000Ω (Auto-ranging)	2.000Ω	20.00Ω		
Accuracy		±3%rdg±6dgt		±3%rdg±10dgt	±3%rdg±4dgt	±3%rdg±25mΩ	±3%rdg±4dgt	
Nominal test current at 0Ω external loop: Magnitude/Duration at 230V		L-N:6A/60ms N-PE:10mA		L-PE:15mA	20Ω:6A/20ms 200Ω:0.5A/20ms 2000Ω:15mA/500ms	25A/20ms	6A/20ms	
PSC/PFC								
Range		2000A/20kA(L-N(PSC)/L-PE(PFC))		2000A/20kA(PFC)	2000A/20kA(PFC)	2000A/50kA(PFC)	2000A/20kA(PSC)	
Accuracy		PSC/PFC accuracy is derived from measured loop impedance specification and measured voltage specification						
RCD								
Rated voltage		100-260V(50/60Hz)						
Function		x1/2, x1,x5,Ramp,Auto,Uc 6/10/30/100/300/500/1000mA/variable						
RCD type		AC(G/S)		A(G/S)	F(G/S)	B(G/S)	EV	
Trip current setting		x1/2,x1,Uc	10/30/100/300/500/1000mA(G) 10/30/100/300/500mA(S)		10/30/100/300/500mA	10/30/100/300/500mA	10/30/100/300mA	6mA(×1 only)
		x5	10/30/100mA		10/30/100mA	10/30/100mA	10/30mA	—
		Ramp	10/30/100/300/500mA		10/30/100/300/500mA	10/30/100/300/500mA	10/30/100/300mA	6mA
Accuracy	Trip current	x1/2	-8% - -2%		-10% - 0%	-10% - 0%	-10% - 0%	—
		x1	+2% - +8%		0% - +10%	0% - +10%	0% - +10%	0% - +10%
		x5	+2% - +8%		0% - +10%	0% - +10%	0% - +10%	—
	Trip time	Ramp	-4% - +4%		-10% - +10%	-10% - +10%	-10% - +10%	-10% - +10%
		x1/2	2000ms(G/S):±1%rdg±2ms					—
	x1	550ms(G):±1%rdg±2ms,1000ms(S):±1%rdg±2ms					10.5s:±1%±2ms	
	x5	410ms(G/S):±1%rdg±2ms					—	
Continuity					Volts			
Range		20.00/200.0/2000Ω (Auto-ranging)			300.0/600V(Auto-ranging)			
		Open circuit voltage (DC)		7-14V	2-600V			
				Measuring ranges		Volts	2-600V	
Measuring current	200mA	≥200mA or more(2Ω or less)			Frequency			45-65Hz
	15mA	15mA±3mA(short-circuit)			Accuracy			Volts
Accuracy		±2%rdg±8dgt			Frequency			±0.5%rdg±2dgt
Phase Rotation					Earth			
Rated voltage		48-600V(50/60Hz)			Range			20.00/200.0/2000Ω(Auto-ranging)
Remarks		Remarks Correct phase sequence: are displayed "1.2.3" and mark Reversed phase sequence: are displayed "3.2.1" and mark			Accuracy			±2%rdg±0.08Ω(20.00Ω) ±2%rdg±3dgt(200.0/2000Ω)
General								
Applicable Standards		IEC 61010-1 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), IEC 61326(EMC)						
Communication Interface		USB, Bluetooth® 5.0 LE(Bluetooth® Low Energy)*1, Android™ 5.0 or more, iOS 10.0 or more						
Power source		LR6(AA)(1.5V) × 8						
Dimensions		136(L) × 235(W) × 114(D)mm						
Weight		1300g (including batteries.)						
Included Accessories		Main test lead*2, 7281(Test leads with remote control switch), 7246(Distribution board test lead), 7228A(Earth resistance test leads), 8041(Auxiliary earth spikes[2 spikes/1 set]) 9084(Soft case), 9142(Carrying case), 9151(Shoulder strap), 9199(Shoulder pad), LR6(AA) × 8, Instruction manual, 8212-USB(USB adaptor with "KEW Report(Software)")*3, Calibration certificate						
Optional Accessories		8212-USB(USB adaptor with "KEW Report(Software)")*3, 8259(Adapter for measurement terminal), 7272(Precision measurement Cord set), 8017A(Extension prod long)						

\*1 6516BT only

\*2 7187A:British plug, 7218A:(EU)European SHUKO plug, 7221A(SA) South african plug, 7222A:(AU)Australian plug

\*3 8212-USB : Standard accessory for 6516, optional accessory for 6516BT

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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 inquires or orders :



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