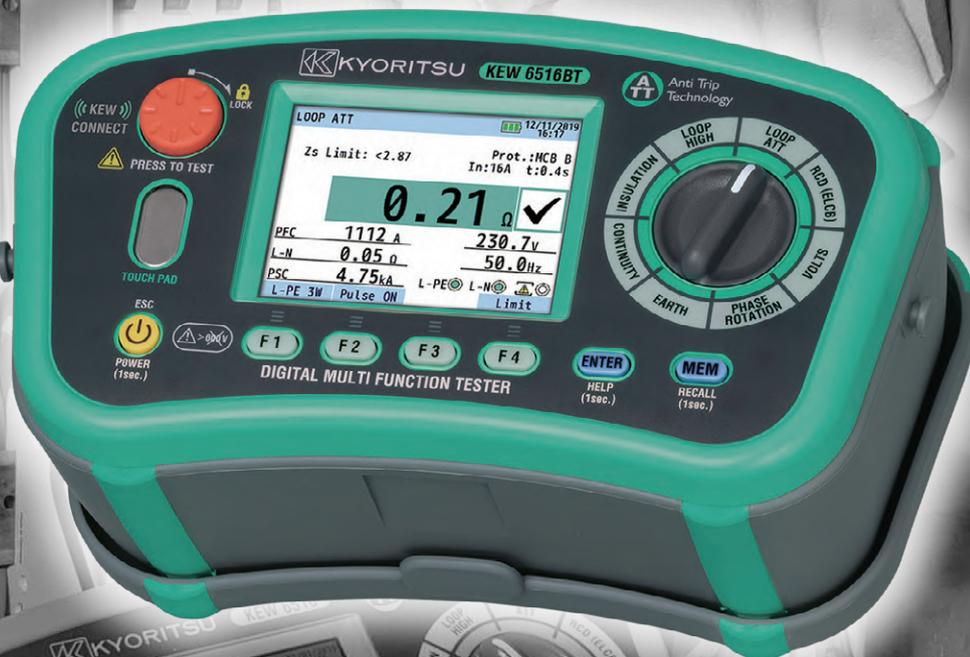


MULTI FUNCTION INSTALLATION TESTER

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 6/10/30/100/300/500/1000mA
PSC 2000A/20kA	PFC 2000A/20kA 2000A/50kA	Earth 20/200/2000Ω
AC V 300/600V	Continuity 20/200/2000Ω	Phase rotation
Frequency	SPD (Varistor)	PAT

Communication interface

USB



KEW Report

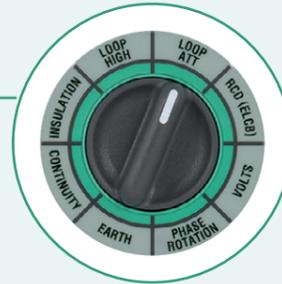
Bluetooth®



KEW Smart
Advanced

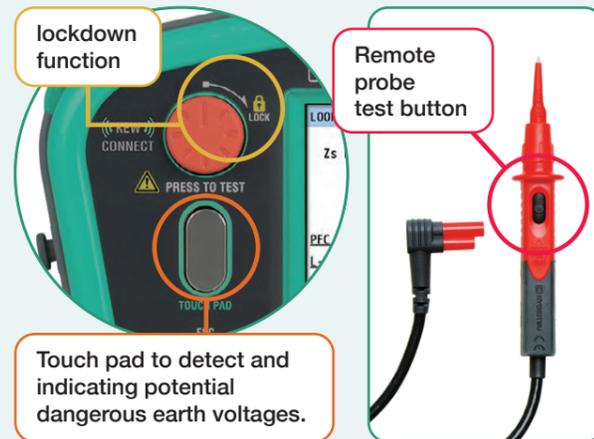
Operation in 3 simple steps

- ✔ 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.



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.

RCD	0° (+)	180°	UL 50V
x1/2	ms	TYPE AC	ms
x1	ms	TYPE A	ms
x5	ms	TYPE B	ms
		TYPE F	ms
		TYPE EV	ms
AUTO	30mA	TYPE AC	

RCD	0°	180°	UL 50V
x1/2	>2000ms	>2000ms	
x1	10.4ms	20.5ms	
x5	8.4ms	18.0ms	230.4V
			50.0Hz
			L-PE L-N
AUTO	30mA	TYPE AC	

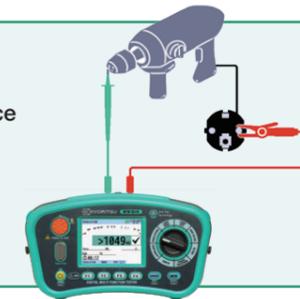
SPD test

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



Connectivity

KEW 6516 can download the test data by connecting the USB adapter (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 adapter can also be ordered as an option.



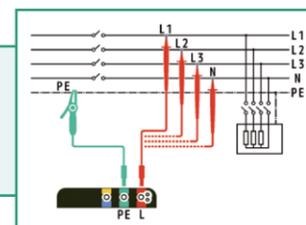
Zs/Ra Limit

LOOP ATT.	12/11/2019	16:17
Zs Limit: <2.87	Prot.: MCB B	In: 16A t: 0.4s
0.21 Ω ✓		
PFC 1112 A	230.7V	
L-N 0.05 Ω	50.0Hz	
PSC 4.75kA	L-PE L-N	
L-PE 3W Pulse ON	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 display.

Anti-Trip Technology (with 2 & 3 wires)

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 HIGH	28/04/2020	12:04
Zs Limit: <1.44	Prot.: MCB C	In: 16A t: 0.4s
0.422 Ω ✓		
PFC 535 A	<100.0V	
L-PE 0.001Qres	TEST LEAD	Limit



Loop test from a wall socket



Continuity check of equipotential bonding

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

Accessories



Optional accessories



MFT and EVSE ADAPTER Kits
 KEW 6516-EV2 : KEW 6516x1, KEW 8602x1
 KEW 6516BT-EV2 : KEW 6516BTx1, KEW 8602x1

MULTI FUNCTION TESTER KEW 6516 / 6516BT Specification

Insulation resistance					SPD(Varistor)	
Test voltage	100V	250V	500V	1000V	1000V max.	
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 to 1049V(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 to 1.2mA @0.1MΩ	1.0 to 1.2mA @0.25MΩ	1.0 to 1.2mA @0.5MΩ	1.0 to 1.2mA @1MΩ	-	
Short circuit current	1.5mA max.				-	
Loop impedance						
Function	LOOP ATT L-PE/L-N(3-wire) L-PE(2-wire)		LOOP HIGH L-PE(0.01ΩRes)	L-PE(0.001ΩRes)	L-N/L-L 48 to 500V(50/60Hz)	
Rated voltage	100 to 260V(50/60Hz) 48 to 260V(50/60Hz)			100 to 260V(50/60Hz)	48 to 500V(50/60Hz)	
Impedance range	20.00/200.0/2000Ω (Auto-ranging)			2.000Ω	20.00Ω	
Accuracy	±3%rdg±6dgt		±3%rdg±10dgt	±3%rdg±4dgt	±3%rdg±25mΩ	
Nominal test current at 0Ω external loop: Magnitude/Duration at 230V	L-N:6A/60ms N-PE:10mA EV mode*1 Normal I N-PE:6mA Low I N-PE:4mA	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/50kA(PFC)	2000A/20kA(PSC)	
Accuracy	PSC/PFC accuracy is determined by measured loop impedance specification and measured voltage specification					
RCD						
Rated voltage	100 to 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	10/30/100/300mA	6mA(×1 only)
	x5	10/30/100mA			10/30mA	-
	Ramp	10/30/100/300/500mA			10/30/100/300mA	6mA
Accuracy	Trip current	x1/2	-8 to -2%		-10 to 0%	-
		x1	+2 to +8%		0 to +10%	-
		x5	+2 to +8%		0 to +10%	-
		Ramp	-4 to +4%		-10 to +10%	-
	Trip time	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						
Range	20.00/200.0/2000Ω (Auto-ranging)					
Open circuit voltage (DC)	7 to 14V					
Measuring current	200mA	200mA or more(2Ω or less)				
	15mA	15mA±3mA(short-circuit)				
Accuracy	±2%rdg±8dgt					
Phase Rotation						
Rated voltage	48 to 600V(45 to 65Hz)					
Remarks	Correct phase sequence are displayed with "1, 2, 3" and arrow mark. Reverse phase sequence are displayed with "3, 2, 1" and arrow mark.					
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*2					
Power source	LR6(AA)(1.5V) × 8					
Dimension	136(L) × 235(W) × 114(D)mm					
Weight	1350g (including batteries)					
Accessories	Mains test lead*3, 7281(Test leads with remote control switch), 7246(Distribution board test lead), 7228A(Earth resistance test leads), 8041(Auxiliary earth spikes[2spikes/1set]) 8212-USB(USB adapter for 6516), 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	8212-USB(USB adapter for 6516BT), 8259(Adapter for measurement terminal), 7272(Precision measurement cord set), 8017A(Extension prod long) 8601(EVSE ADAPTER), 8602(EVSE ADAPTER)					

*1 The following functions have been added to KEW 6516/6516BT main unit firmware version 2.10 or later.

*2 6516BT only

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®.

*3 7187A: British plug, 7218A: (EU) European SCHUKO plug, 7221A: (SA) South African plug, 7222A: (AU) Australian plug

Bluetooth® is a trademark or registered trademark of Bluetooth SIG, Inc.

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.

**COSINUS Messtechnik - Ihr Partner für Messlösungen
in allen elektrischen und physikalischen Anwendungen**

COSINUS Messtechnik GmbH

Rotwandweg 4

82024 Taufkirchen

Tel.: 089 / 66 55 94 - 0

Fax: 089 / 66 55 94 -30

office@cosinus.de
www.cosinus.de