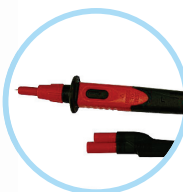


# MULTI FUNCTION TESTERS

## KEW 6016



A single rotary dial to make your selection.



Slim remote probe with test button as well as a lockdown option on the instrument for the most convenient hands free testing.



### Continuity Measurement

Continuous testing can be carried out by use of the test button lockdown feature. A selectable buzzer gives instantaneous indication of continuity. Null facility eliminates the test lead resistance from the results, the nulled value is retained even if the instrument is switched off. Live circuit warnings are given by a flashing LED, buzzer and indication on the display.

### Insulation Measurement

Three selectable test voltages 250V, 500V and 1000V. An auto-discharge function ensures that circuits are not hazardous after testing. A red LED gives warning of high voltage output during testing and discharging of the circuit. In case of connecting to a live circuit, a live circuit warning is given by flashing LED, buzzer and indication on the display.

### Loop Impedance Measurement

A patented (ATT) low current loop impedance test enables high accuracy loop measurements (up to 0.01 ohm) and quick testing without tripping RCDs. A high current alternative is selectable for even higher accuracy and instantaneous results. The subsequent test will default to the low current test, this saves any inadvertent tripping of the RCD. The KEW6016 allows also for phase to phase loop tests.

### PSC / PFC Measurement

The Prospective Short Circuit Current (PSC) and Prospective Fault Current (PFC) are automatically calculated and shown on the display. As loop testing, the function has low and high test current options with the default to low current to avoid inadvertent tripping of RCDs.

### RCD Measurement

The KEW 6016 has a comprehensive RCD test feature for RCD type AC (Alternative Currents), RCD type A (Pulsating Direct Currents), General and Selective (delayed). Measures at 1/2 x, 1 x, 5 x of nominal RCD current. It also has Ramp Test and Auto test where all results are shown on one screen. Touch voltage limit can be selected for 25V or 50V depending on application.

### Earth Measurement

Using the classical Volt-Amper method with two auxiliary earth spikes and without external power source. All test leads and spikes are supplied as standard accessories.

### Phase rotation

KEW 6016 can check the phase rotation of three phase lines with clear indication of the sequence on the display.

### Voltage Measurement

In addition to the voltage measurement, this function gives also the Frequency of the voltage under test.

### Memory Function

Save and display up to 1000data.

### 10 in 1

#### Continuity

20/200/2000Ω

#### Insulation

250/500/1000V

#### Loop

20/200/2000Ω

#### PSC

2000A/20kA

#### PFC

2000A/20kA

#### RCD

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

#### Earth

20/200/2000Ω

#### ACV

500V

#### Phase rotation

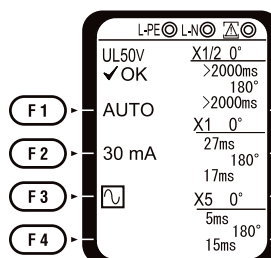
#### Frequency

### Hands Free Testing



The instrument features a test button in the probe and a lockdown test button for 'hands free' operation.

### RCD (ELCB)-Auto Test



Auto test enables complete testing of RCD (6 tests) while the operator simply stands by and resets the RCD. All the results are displayed on one screen - no need to scroll.

# MULTI FUNCTION TESTERS


6016

Continuity		
Range	20/200/2000Ω (Auto-ranging)	
Open circuit voltage (DC)	5V±20% <sup>(*)1</sup>	
Short circuit current	>200mA	
Accuracy	±0.1Ω (0 - 0.19Ω) ±2%rdg+8dgt (0.2 - 2000Ω)	
Insulation resistance		
Range	20/200/2000MΩ (Auto-ranging)	
Open circuit voltage (DC)	20/200MΩ	250V+25% -0%
	20/200/2000MΩ	500V+25% -0%, 1000V+20% -0%
Rated current	20/200MΩ	1mA or > @ 250kΩ
	20/200/2000MΩ	1mA or > @ 500kΩ, @ 1MΩ
Accuracy	20/200MΩ	±2%rdg+6dgt (0 - 19.99MΩ)
		±5%rdg+6dgt (20 - 200MΩ)
	20/200/2000MΩ	±2%rdg+6dgt (0 - 199.9MΩ) ±5%rdg+6dgt (200 - 2000MΩ)
Loop impedance		
Function	L-PE, L-PE (ATT), L-N / L-L	
Rated voltage	L-PE, L-PE (ATT):	100 - 260V (50/60Hz)
	L-N:	100 - 300V (50/60Hz)
	L-L:	300 - 500V (50/60Hz)
Nominal test current at 0Ω external loop:	20Ω:	6A/20ms
	200Ω:	2A/20ms
Magnitude/Duration at 230V	2000Ω:	15mA/500ms
	L-N:	6A/60ms
	N-PE:	10mA/approx. 5s
Range	20/200/2000Ω Auto-Ranging (L-N < 20Ω)	
Accuracy	L-PE, L-N / L-L:	±3%rdg+4dgt <sup>*2</sup> ±3%rdg+8dgt <sup>*3</sup>
	L-PE (ATT):	±3%rdg+6dgt <sup>*2</sup> ±3%rdg+8dgt <sup>*3</sup>
PSC (L-N/L-L) / PFC (L-PE)		
Function	PSC, PFC, PFC (ATT)	
Rated voltage	PSC:	100 - 500V 50/60Hz
	PFC, PFC (ATT):	100 - 260V 50/60Hz
Nominal test current at 0Ω external loop:	PSC:	6A/20ms
	PFC:	6A/20ms, 2A/20ms, 15mA/500ms
Magnitude/Duration at 230V	L-N:	6A/60ms, N-PE: 10mA/approx. 5s
	PFC (ATT):	
Range	2000A/20kA Auto-Ranging	
Accuracy	PSC/PFC accuracy is derived from measured loop impedance specification and measured voltage pecification	
RCD		
Function	X1/2, X1, X5, Ramp, Auto, Uc	
Trip current setting	X1/2, X1, Uc:	10/30/100/300/500/1000mA
	X5:	10/30/100mA
	Ramp:	10/30/100/300/500mA


RCD		
Trip current Duration	X1/2:	2000ms
	X1:	G:550ms / S: 1000ms
	X5:	410ms
	Ramp:	Goes up by 10% from 20% to 110% G:300ms/S:500msX10 times
Rated voltage	X1/2, X1, X5, Ramp, Uc:	230V+10%-15% 50/60Hz
	Auto:	Depending on the accuracy at each function. Measurement sequence: X1/2 0°→X1/2 180°→X1 0°→X1 180°→X5 0°→X5 180° Measurements with x5 are not carried out for RCDs with nominal current of 100mA or more.
Accuracy	AC Type	X1/2: -8% - -2%, X1, X5: +2% - +8%, Ramp: ±4%
	A Type	X1/2: -10% - 0%, X1, X5: 0% - +10%, Ramp: ±10% Uc: +5% - +15%rdg±8dgt
Earth		
Range	20/200/2000Ω Auto-Ranging	
Accuracy	20Ω:	±3%rdg+0.1Ω
	200/2000Ω:	±3%rdg+3dgt (Auxiliary earth resistance 100±5%)
Phase Rotation		
Rated Voltage	50-500V 50/60Hz	
Remarks	Correct phase sequence: are displayed "1.2.3" and ⚡ mark Reversed phase sequence: are displayed "3.2.1" and ⚡ mark	
Volts		
Function	Volts	Frequency
Rated voltage	25 - 500V, 45 - 65Hz	
Measuring range	25 - 500V	45 - 65Hz
Accuracy	±2%rdg+4dgt	±0.5%rdg+2dgt
General		
Applicable Standards	IEC 61010-1 CAT III 300V(500V L to L) Pollution degree 2 IEC 61557-1,2,3,4,5,6,7,10 IEC 60529(IP40), IEC 61326(EMC)	
Power source	LR6 × 8	
Dimensions	136(L) × 235(W) × 114(D)mm	
Weight	1350g (including batteries.)	
Accessories	Main test lead <sup>**</sup> 7196A[Test leads with remote control switch] 7188A(Distribution board fused test leads) 7228A(Earth resistance test leads) 8032(Auxiliary earth spikes[2 spikes/set]) 8212-USB(USB adaptor with KEW Report(Software)) 9014(Cord case), 9142(Carrying Case), 9121(Shoulder strap), Buckle, Battery, Instruction manual 8212-RS232C(RS232C adaptor with KEW Report(Software))	
Optional		

\*1: Voltages are output when measurement resistance is under 2100 ohm.  
\*2: 230V+10%-15%  
\*3: Other voltages except for \*2  
\*4: 7187A:British plug, 7218A:(EU)European SHUKO plug,  
7221A(SA) South african plug, 7222A:(AU)Australian plug


## Accessories




**MODEL 7188A**  
Distribution board fused test leads




**MODEL 7196A**  
Test leads with remote control switch




**Main test lead**




7187A  
7221A  
7218A  
7222A  
Plug



**MODEL 7228A**  
Earth resistance test leads




**MODEL 8032**  
Auxiliary earth spikes  
[2 spikes/set]




**MODEL 9142**  
Carrying Case

### Optional Accessory


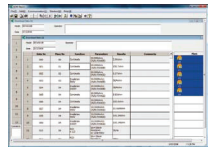


**MODEL 8212-USB**  
USB adaptor with "KEW Report (Software)"



**MODEL 8212-RS232C**  
RS232C adaptor with "KEW Report (Software)"

**"KEW Report" Software for report**  
"KEW Report" transfers measurement data from the KEW6016 to a PC via MODEL.8212-USB or MODEL.8212-RS232C.

**System requirements**  
OS: Windows® Vista/7/8/10  
Display: XGA (Resolution 1024 × 768 dots) or more  
Hard-disk: Space required:20Mbyte or more  
Others: With CD-ROM drive and USB port  
\* Windows® is a registered trademark of Microsoft in the United States.