

# LOOP/PSC TESTERS

## KEW 4140



- Anti-Trip Technology for complete trip free Loop testing on all RCDs rated 30mA and above.
- Dual Display allows simultaneous measurements like Loop & PFC/PSC.
- Two wire connection for Loop L-L, L-N and PSC testing is possible.
- Phase rotation, Voltage and Frequency measurements.
- Lock-down test button for 'hands free' testing with auto-start operation.
- Display and front panel keyboards with Backlight to be visible in dark places.
- Water and Dust proof (IP54)



4140			
<b>Loop Impedance</b>			
Function	L-PE ATT OFF	L-PE ATT ON	L-N/L-L
Rated voltage	230V (50/60Hz)		L-N: 230V (50/60Hz) L-L: 400V (50/60Hz)
Operating Voltage	100 - 280V (45 - 65Hz)		
Range (Auto-Ranging)	20/200/2000Ω	20/200/2000Ω (L-N<20Ω)	20Ω
Nominal Test Current at 0Ω External Loop: Magnitude/Duration at 230V	20Ω:6A/40ms 200Ω:2A/20ms 2000Ω:15mA/500ms	L-N:6A/60ms N-PE:10mA/approx. 5s	20Ω:6A/20ms
Accuracy	±3%rdg±4dgt (*1)	±3%rdg±6dgt (*1)	L-N: ±3%rdg±4dgt L-L: ±3%rdg±8dgt
<b>PFC(L-PE)/PSC(L-N/L-L) (*2)</b>			
Function	PSC/PFC	PSC/PFC (ATT)	PSC
Rated voltage	230V (50/60Hz)		L-N: 230V (50/60Hz) L-L: 400V (50/60Hz)
Operating Voltage	100 - 280V(45 - 65Hz)		
Range (Auto-Ranging)	2000A/20kA	2000A/20kA(L-N<20Ω)	2000A/20kA
Nominal Test Current at 0Ω External Loop: Magnitude/Duration at 230V	20Ω:6A/40ms 200Ω:2A/20ms 2000Ω:15mA/500ms	L-N:6A/60ms N-PE:10mA/approx. 5s	20Ω: 6A/20ms
<b>Phase Rotation</b>			
Operating Voltage	50 - 500V, 45 - 65Hz		
Remarks	Correct phase sequence : displayed "1.2.3" and ⚙ mark Reversed phase sequence : displayed "3.2.1" and ⚙ mark		
<b>Volts</b>			
Function	Volts	Frequency	
Measuring range	0 - 500V	45 - 65Hz	
Accuracy	±2%rdg±4dgt	±0.5%rdg±2dgt	
Applicable Standards	IEC 61010-1 CAT III 300V (500V L to L) IEC 61557-1,3,7,10, IEC 60529 (IP54), IEC 61326(EMC)		
Power source	LR6/R6(AA)(1.5V) × 6 *Use of alkaline batteries (LR6) is recommended.		
Dimensions	84(L) × 184(W) × 133(D)mm		
Weight	860g (including batteries.)		
Accessories	Main test lead (*3), Distribution board test lead (*4), 9155 (shoulder strap), 9156 (Soft case) LR6 (AA) × 6, Instruction manual		

\*1: Accuracy of L-N LOOP displayed on the Sub Display is synchronized with the one at L-N/L-L function.  
\*2: PSC/PFC Accuracy is derived from measured loop impedance specification and measured voltage specification.  
\*3: 7187A:(UK)British plug, 7218A:(EU)European SHUKO plug, 7221A:(SA)South african plug, 7222A:(AU)Australian plug  
\*4: 7246 : Blue, Green, Red, 7247 : Black, Green, Red

## Accessories

**Main test lead**  
**MODEL 7187A**  
**MODEL 7218A** (EU)European SHUKO plug  
**MODEL 7221A** (SA)South african plug  
**MODEL 7222A** (AU)Australian plug

**Distribution board test lead**  
**MODEL 7246** Blue, Green, Red  
**MODEL 7247** Black, Green, Red

**MODEL 9156**  
Soft case

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