

## LOOP/PFC/PSC TESTER KEW 4140

# Anti-Trip Technology "ATT"

**No RCDs tripping during Loop Testing!**



**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)**

## ● Specifications

Loop Impedance			
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)		100~500V (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%rd±6dgt (*1)	L-N: ±3%rdg±4dgt L-L: ±3%rdg±8dgt
PFC(L-PE)/PSC(L-N/L-L) (*2)			
Function	PFC	PFC (ATT)	PSC
Rated voltage	230V (50/60Hz)		L-N: 230V (50/60Hz) L-L: 400V (50/60Hz)
Operating Voltage	100~280V (45~65Hz)		100~500V (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
Phase Rotation			
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		
Volts			
Function	Volts	Frequency	
Measuring range	0~500V	45~65Hz	
Accuracy	±2%rdg±4dgt	±0.5%rdg±2dgt	
Applied standards	IEC 61010-1 CATIII 300V (500V L to L) IEC 61010-031, IEC 61557-1,3,7,10, IEC 60529 (IP54), IEC 61326 (EMC)		
Power source	1.5V AA batteries × 6 *Use of alkaline batteries (LR6) is recommended.		
Dimensions	84(L) × 184(W) × 133(D)mm		
Weight	860g (including batteries.)		
Accessories included	7218 (Main cord) (*3), 7246 (Distribution board test lead), 9155 (Shoulder strap), 9156 (Soft case) LR6 (Battery) × 6, Instruction manual, Calibration certificate		

\*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: 7187 (Power cord [UK]), 7221 (Power cord [SA]), 7222 (Power cord [AU])

## EVERYTHING YOU NEED ....

KEW 4140 comes complete with everything you need for Loop, PFC, PSC and Phase rotation testing on an electrical installation according to the IEC 60364-6 (or its national equivalent standard). A full set of new safety test leads is included, they have an overmould for maximum grip and are extremely robust. The instrument also comes in a soft carry case, a quick reference guide locates on the instrument body, a strap belt and it is supplied with a calibration certificate.



**! 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 Messlösung  
in allen elektrischen und physikalischen Anwendungen**

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