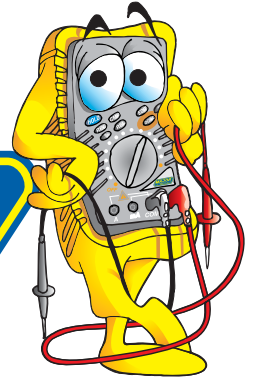


Earth Loop Impedance & PSC Testing Methods



Technical Data Sheet



K4140

Everything you need! No RCD's tripping during loop testing!

K4140 comes complete with everything you need for Loop, PFC, PSC and Phase rotation testing on an electrical installation according to the IEC 60364-6 and SANS 10142.



The K4140 incorporates Anti-Trip Technology (ATT) which electronically bypasses RCDs when performing loop impedance tests. This saves time and money by not having to take the RCD out of the circuit when testing and is a safer procedure to follow. With the ATT function enabled, a test current of 15mA or less is applied between Line & Earth. It enables resolution loop impedance measurements (up to 0.01 ohm), without tripping RCDs rated at 30mA and above. A full set of new safety test leads are 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 located on the instrument body, a soft strap belt and is supplied with a calibration certificate.

Size(HxWxD): 84mm x 184mm x 133mm
Weight: 860g

Features:

- Phase Rotation
- Anti-Trip Technology for complete trip free Loop testing on all RCD's rated 30mA and above
- Dual display allows simultaneous measurements like Loop & PFC/PSC.
- Two wire connections 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 dustproof (IP54).

K4140



Specifications:

K4140		
FUNCTION	L-PE ATT OFF	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	20Ω
Nominal Test Current at 0W External Loop:	200Ω: 6A/40ms	20W: 6A/20ms
Magnitude/Duration at 230V	200Ω: 2A/20ms 2000Ω: 15mA/500ms	
Accuracy	±3%rdg±4dgt	L-N: ±3%rdg±4dgt L-L: ±3%rdg±8dgt
PFC(L-PE)/PSC(L-N/L-L) (*2)		
Function	PSC	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
Nominal Test Current at 0W External Loop:	200Ω: 6A/40ms	
Magnitude/Duration at 230V	200Ω: 2A/20ms 2000Ω: 15mA/500ms	20W: 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



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