

Loop Impedance and PSC Tester

Technical Data



K4118

K4118 • K4120

The K4118 and K4120 instruments are microprocessor-controlled and includes useful features such as mains voltage measurements, neon indication of current wiring status and a lock down test button for hands-free operation. An added feature is a 200 ohm earth electrode resistance test range to check that the earth electrodes comply with the IEC wiring regulations. The K4118 and K4120 Digital Earth Loop Impedance Testers are the most technologically advanced meters of such instruments available and are designed to comply with IEC 61557-1 regulations. These instruments offer convenient and accurate measurements of Earth Loop Impedance at the origin (Z_e) and at various points throughout the electrical installation (Z_s).



K4120

Features Include:

- Microprocessor controlled for accuracy and reliability
- Automatic Lock-Out if Test Resistor Overheats
- Direct readout of Prospective Short Circuit Current and Earth Fault Current
- Lock Down Test Button for Continuous use
- Measures low loop impedance of 0.01Ω
- ELCB Lock allows Testing without tripping most Passive RCD's (**ONLY K4120**)
- 3 LED's for checking correct wiring status
- Safe voltage measurement function
- Visual indication of reversed phase and neutral wiring at socket
- External earth probe option
- Displays mains voltage
- Supplied with distribution board test leads
- IP54 Casing

General Specifications

Dimensions : 186 X 167 X 89 mm

Weight : K4118- 750g

K4120- 960g

Reference Conditions : Specifications are based on the following conditions except where otherwise stated:

1. Ambient temperature: $23 \pm 5^\circ\text{C}$
 2. Relative humidity 45% to 75%
 3. Position: horizontal
 4. AC power source 230V, 50Hz
 5. Altitude up to 2000m
- Eight LR6 or R6 batteries

Operating Temperature and Humidity : 0 to $+40^\circ\text{C}$, relative humidity 80% or less, no condensation

Storage Temperature and Humidity : -20 to $+60^\circ\text{C}$ relative humidity 75% or less, no condensation

Symbols used on the instrument :

□ Equipment protected throughout by DOUBLE INSULATION or REINFORCED INSULATION.

⚠ Caution (refer to instruction manual)



SERIES



Measurement	Range	Measuring Range	Nominal test current at 0 Ω external loop	Accuracy	K4118	K4120
Loop Impedance	20 Ω	0.00 ~ 19.99 Ω	25A/20ms	\pm (2%rdg + 4 dgts)	*	*
	200 Ω	0.0 ~ 199.9 Ω	2.3A/40ms			
	2000 Ω	0 ~ 1999 Ω	15mA/280ms			
Prospective Short-Circuit Current	200A	0.0 ~ 199.9A	2.3A/40ms	Consider accuracy of Loop Impedance	*	*
	2000A	0 ~ 1999A	25A/20ms			
	20KA	0.00 ~ 4.00kA	25A/20ms			
Measurement	Measuring Range			Accuracy	K4118	K4120
Voltage	110 ~ 260V			\pm (2% + 4 dgts)	*	*