

As Per the guidelines for implementation of Electrical Installation Standards in buildings, the earth fault loop impedance has to be low enough to allow adequate earth fault current flow to cause an over current protective device in a faulty circuit to operate in a sufficiently short time.

KM-8025 LP measures the earth fault loop impedance for safe operation of the circuits.

### ■ FEATURES

- 3 ½ digit LCD (2000-count).
- Backlight function.
- 15mA loop measurement which will not trip ELCBs.
- Convenient and easier for users to measure the loop impedance directly without bypassing the wires.
- Wiring check function.
- Over temperature protection.
- Safety standard :  
EN 61010-1 CAT III 300V EN 61326-1
- Over voltage protection.
- Built-in voltmeter.
- Built-in earth tester.
- Built-in loop/psc tester.
- No Batteries used.



Preliminary Specifications

### ■ SPECIFICATIONS

Loop Impedance			
Range	Measuring Range	Nominal test current at 0Ω external loop	Accuracy
20Ω	0.00~19.99 Ω	23A / 40ms	(2%rdg + 4dgt)
200Ω	0.0~199.9 Ω	2.3A / 40ms	
2000Ω	0~1999 Ω	15mA / 400ms	
Prospective Short-circuit Current			
Range	Measuring Range	Nominal test current at 0Ω external loop	Accuracy
20KA	0.00~4.00 KA	23A / 40ms	Consider accuracy of loop impedance
2000A	0~1999 A	23A / 40ms	
200A	0.0~199.9 A	2.3A / 40ms	
Voltage Display			
Measuring Range	Accuracy	Remark	
150~260V	(2%rdg + 4dgt)	at 0 Ω external loop	
General			
Temperature	0~40°C		
System voltage	230V		+13% -15%
System frequency	50Hz		
None Battery system voltage	150V~260V		
Over Temperature protection	When overheating, the "⚡" symbol will show on the LCD, and the 8025LP stop measuring.		
Wiring check	P-E	LEDs illuminate when the wiring polarity of circuit under test is correct	
	P-N		
	N-E	LED is light when P and N are reversed or the Earth is not connected.	
15mA Loop measurement	Loop impedance 200Ω range measurement is carried out with low test current (15mA). The Current will not cause tripping out for ELCBs.		

All Specifications are subject to change without prior notice.