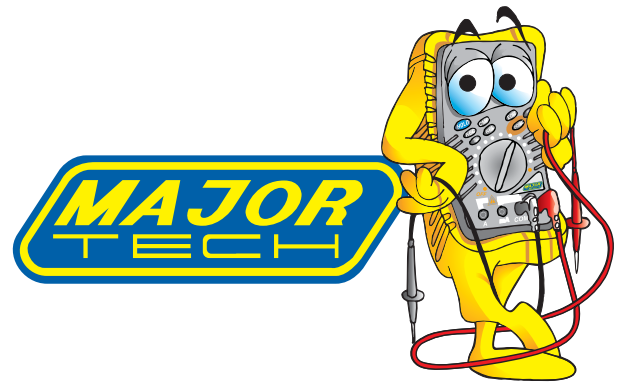


# Industrial RCD/ ELCB Tester



## Technical Data



### K5410

The new K5410 is a Microprocessor controlled Industrial Earth Leakage tester designed to operate on 550V, 380V and 220V systems, or circuits with a maximum of 450V AC (L-E). The K5410 measures trip current by varying the current automatically. A great feature is remote testing which enables the user to hold the test leads with both hands by locking the test button; measurement will automatically start when the main voltage is detected. The K5410 detects the voltage to Earth electrodes or Protective conductors during RCD test, when applying test currents, at measurement using Earth in order to prevent electrical shocks cause by the damaged earth. Measurement will cease at 50V AC or more.

#### Features Include:

- Displays mA trip time
- Auto ramp of trip out current
- Rated current 500mA
- Remote testing with test button on leads
- Conducts testing of RCD's at x1/2 range, trip time at x1 and x5 ranges
- Detects the voltage to earth of Earth electrodes or Protective conductors during RCD test
- IP54 dust and waterproof case
- Backlight facilitates working in dimly illuminated locations
- Direct readout of disconnection time
- 0° or 180° Phase angle selection
- Operating voltage 100 to 400V L-E

#### General Specifications

Applied Standards	: IEC61010-1 Measurement Category CAT. III 300V / CAT. II 400V, Pollution degree 2 IEC61010-031 IEC61557-1,6 IEC60529 IP54
Display	: 1999 counts (3 1/2 digits), Large LCD
Used Location	: Altitude up to 2000m, indoor use
Operating Temperature & Humidity	: 0°C ~ 40°C, relative humidity 85% (no condensation)
Storage Temperature & Humidity	: -20°C ~ 60°C, relative humidity 85% (no condensation)
Withstand Voltage	: AC3700V / 1min
Insulation Resistance	: 50MΩ or more / 1000V,
Sleep Function	: 1. Automatically enters sleep mode in 3 min after the last switch operation (current consumption 75uA). This function doesn't work at voltage measurements. To exit from the sleep modes, set the function switch to OFF position once, and re-set it to the range at which a measurement to be conducted. 2. Backlight turns off in 1 min after it lights up.
Dimensions	: 186mm X 167mm X 89 mm
Weight	: 965g
Power Source	: DC12V / Size AA battery R6P (SUM-3) x 8pcs
Possible Number of Measurements	: 1200 times or more (measure every 30sec at X1/2 range, I <sub>Δ</sub> n=100mA
Accessories	: Instruction Manual x 1pce Strap Belt x 1pce Test lead M7128 x 1 set (red & black cords) Test lead with alligator clip M7129 x 1 set Cord case x 1 pce Long pin M8017 x 2 pcs Size AA battery R6P (SUM-3) x 8 pcs



## General Specifications

**Operating Error** : Operating error (B) is an error obtained under the nominal operating conditions, and calculated with the intrinsic error (A), which is an error of the instrument used, and the error (En) due to variations.

### Measuring Range and Accuracy (23°±5°C, relative humidity 75% or less)

Range	Rated Voltage	Test Current I Δ n	Measuring Range	Accuracy
X5	100V + 10% 200V + 32% /-10% 400V ± 10% 50 / 60Hz	10 / 30 / 50 / 100mA	Testing Time 0ms ~ 200ms	Trip Time ±(1%rdg + 3dgt) Trip Time +2% ~ 8%
X1		10 / 30 / 50 / 100 / 200 / 500mA	Testing Time 0ms ~ 200ms	Trip Time ±(1%rdg + 3dgt) Trip Time +2% ~ 8%
X1/2		10 / 30 / 50 / 100 / 200 / 500mA	Testing Time 0ms ~ 200ms	Trip Time ±(1%rdg + 3dgt) Trip Time +2% ~ 8%
AUTO RAMP (mA)		10 / 30 / 50 / 100 / 200 / 500mA	40% ~ 110% of I Δ n (goes up by 5%) Testing Time 300ms x 15 steps	Test Current at each step -4% ~ +4%

### Voltage Measurement

Measuring Range	Accuracy
80V ~ 450 V 50 / 60Hz	±(2%rdg+4dgt)
Max Operating Error	Max Operating Error
Range	Max Operating Error
X5	test current 0% ~ +10%
	test measurement +10%
X1	test current 0% ~ +10%
	test measurement +10%
X1/2	test current -10% ~ 0%
AUTO RAMP (mA)	± 6%

## Ordering Information

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