

ELCB (RCD)Tester



2820 EL

FEATURES

- **Microprocessor-controlled.**
- Operating voltage 100-450V L-E.
- Rated current 999mA, at 317V AC/50Hz.
- Checks ELCB trip time and trip point (sensitivity).
- Auto-off and auto ranging.
- Phase angle selection (0° / 180°).
- Indicates tripping phase angle.
- Impact resistant enclosure.
- Over temperature shut-down.
- Transient protection.
- Suitable for heavy industrial use.
- Fused.

OPERATING PRINCIPLES

EARTH LEAKAGE TESTS

The testers may be used to check the trip point (Test 1) of the ELCB or the trip time (Test 2).

Test 1 is normally used on instantaneous ELCB s while Test 2 is normally used to inverse and fixed time-delay ELCBs.

TEST PROCEDURE

Test 1-instantaneous ELCBs A ramp current, increasing at approximately 12 mA/s is introduced between L and E and the point at which the ELCB trips is recorded. To save time and reduce energy dissipation, the starting point of the ramp may be selected. Test 2-Inverse and fixed time delay ELCBs. A constant current is selected and injected between L-E and the tripping time is recorded.

SPECIFICATIONS

Trip current-range	0-1A at 317V (Auto-Rang Programmable)
Trip current-resolution	1mA
Operating voltage (L-E)	100 - 450V
Phase angle setting	0° and 180° selectable
Timer-max	99.999s
Timer resolution	1ms
Typical Accuracy	
Trip-current	±1%rdg±1mA
Trip-time	±1%rdg±1dgt
Voltage	±3%rdg±1dgt
Operating temperature - humidity	-10°C to +40°C 80% Max. relative humidity
Dimensions	170(L) × 120(W) × 95(D)mm
Weight (battery included)	Approx. 800g
Power source	1.5 (AA) × 8
Safety standard	EN 61010-1 CAT III 450V EN 61326-1 Instruction manual
Accessories	Test leads Shoulder belt Batteries

