MARTINDALE ELECTRIC

LP2000
Digital loop & Ipsc tester

The model LP2000 Digital Loop Tester is a hand-held, mains powered instrument designed to measure the loop and prospective short circuit current (Ipsc) of electrical circuits in accordance with the 16th Edition of the IEE wiring regulations (BS7671). It has a 3½ digit liquid crystal display. The loop is measured over two ranges to 199.9Ω with auto range at 15Ω and with resolutions of 0.01 and 0.1Ω. The Ipsc is measured over one range of 19.99 kA with a resolution of 0.01kA.

Three measurement modes, selected by the function switch, enable loop measurements to be made between the phase and earth conductor in the mains lead and prospective short circuit current measurements between the phase and neutral conductors in the mains lead.

A reading is initiated and displayed when the test button is depressed. The lamps indicate the status of the phase neutral and phase earth conductors and can be interpreted to determine the absence of a conductor or the reversal of two conductors.

SPECIFICATIONS

ELECTRICAL

Supply Voltage: 200 to 260V rms, 50/60Hz

Test Current: 24A, rms, for two half cycles at 240V

Loop Range: 0 to 15Ω nominal in steps of 0.01Ω
15 to 199.9Ω in steps of 0.1Ω

Accuracy: ±2% of reading, ±2 digit

Temperature Coefficient: ±0.1% / °C

Ipsc Range: 0 to 19.99kA in steps of 0.01kA

Fuse: 5A, HBC, Anti-Surge ceramic, DIN 5 X 20mm

Transient Protection: VDR at input

Thermal Protection: Electronic delay

Safety: EMC: To BS EN 50081-1, BS EN 50082-1
LVD: To BS EN 61010-1

Installation Category: Category III

MECHANICAL

Instrument Housing: 54 X 190 X 90mm approx.

Moulded in ABS and polycarbonate

Weight: 0.4kg (Less Carry Case)

Display: Custom Liquid Crystal

Socket: 4mm Shrouded Mains CEE22 (IEC320)

Leads: Mains lead with moulded plug(13A fuse). Wander Earth Lead with fused retractable probe and 4mm safety plug.

ENVIRONMENTAL

Operating Temperature: 0°C to +40°C

Storage Temperature: -20°C to +70°C

Operating Humidity: 90% RH max at +40°C

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