# Megger.

## **LT300**

# **High current loop testers**



- High current loop tester
- Single and 3 phase testing
- 16 Hz to 400 Hz operation
- CATIV 300 V applications
- Two wire lead set or mains plug leads
- Tough armoured case

#### **DESCRIPTION**

The LT300 offers high current loop testing over a wide range of frequencies and supply voltages with simple, fast, two wire operation.

It has a large clear display that aids visibility in poor conditions.

## Two models are available:

LT300-EN-00 - with red/green leads

LT300-EN-BS - with BS1363 mains plug lead

LT300-EN-FS - with fused red/green leads

The high current loop test provides fast accurate and stable results with a resolution to 0.01  $\Omega$  on the 20  $\Omega$  range.

## Frequency range

Supply frequency is indicated upon connection to the supply. This will automatically set to the measured supply frequency either 16 Hz, 50/60 Hz or 400 Hz. Testing will commence automatically.

## **Loop Impedance measurement:**

Two loop impedance ranges are provided.

20  $\Omega$  - Resolution to 0.01  $\Omega$ 

200  $\Omega$  - Resolution to 0.1  $\Omega$ 

## **Supply voltage:**

Operational supply range extends from 50 V to 550 V (400 V @ 16 Hz), with a warning for voltages over 330 V highlighting accidental phase to phase connections on a nominal 230 V system.

Single Phase CATIV 300 V phase to earth, as well as 550 V phase to phase applications (400 V @ 16 Hz)

## **GENERAL 1**

The instrument is housed in a rubber armoured case with a built-in cover to protect the display when not in use.

The IP54 weatherproof rating provides excellent protection in adverse conditions.

The instrument is supplied with either a two wire (red/green) lead set, or a mains plug test lead for access to wall sockets, a certificate of test and a hard carry case.



#### **SPECIFICATION**

## Voltage measurement range

**Voltage range:** 0 V to 550 V (400 V @ 16 Hz)

Accuracy: ±5% ±2 V

## **Loop test operating frequencies**

16 Hz 15 Hz to 18 Hz, 33 Hz, 29 Hz to 337 Hz 50/60 Hz 40 Hz to 70 Hz, 125 Hz, 100 Hz to 142 Hz

400 Hz 260 Hz to 498 Hz

#### **Test currents**

20 ½ Range 200 ½ Range

550 V 27 A 2.7 A 230 V 12 A 1.2 A 115 V 6 A 0.6 A 50 V 3 A 0.3 A

### **Loop test accuracy**

### Loop resistance:

0 to 19.99 ½ (20 ½ range) ±5% ±0.03 ½

0 to 199.9  $\frac{1}{2}$  (200  $\frac{1}{2}$  range)  $\pm 5\% \pm 0.5 \frac{1}{2}$ 

#### **Environmental**

Operating temperature:  $-10^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ Storage temperature:  $-25^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$ Humidity:  $90\%\text{RH} @+40^{\circ}\text{C}$ 

Maximum altitude :2,000 m

Dust and water: IP54

**Battery**: 8 x AA (LR6) alkaline or NiMH

rechargeable cells.

#### Safety

Meets the requirements of IEC61010-1 300 V CATIV phase to earth or 550 V Phase to Phase (400 V @ 16 Hz).

## EN61557

Complies with the following parts of EN61557, Electrical safety in low voltage systems up to 1000 V a.c. and 1500 V d.c. Equipment for testing, measuring or monitoring of protective measures:

Part1 - General Requirements

Part3 - Loop resistance

## ЕМС

In accordance with IEC61326-1

**Weight**: 980gms (2.16lb)

**Dimensions**: 203 x 148 x 78mm ( 8 x 5.8 x 3 in)





Description	Order Code
High current loop tester with red/green lead set	LT300-EN-00
High current loop tester with BS1363 mains plug lead	LT300-EN-BS
High current loop tester complete with fused leads	LT300-EN-FS
Included Accessories	
Red/green 2 wire test lead set (LT300-EN-00)	1001-976
Mains plug test lead (BS1363) (LT300-EN-BS)	6220-810
Hard carry case	5410-409
Fused leads ONLY WITH LT300-EN-FS	1001-977
Optional Accessories	
Mains plug test lead (BS1363) (LT300-EN-BS)	6220-810
Red/green 2 wire test lead set (LT300-EN-00)	1001-976
Spare fuse for leads	25950-013