

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.

Three 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 Ω on the 20 Ω 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 Ω - Resolution to 0.01 Ω
- 200 Ω - Resolution to 0.1 Ω

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

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.

SPECIFICATIONS

Voltage measurement

Voltage range: 0 V to 550 V (400 V @ 16 Hz)
 Accuracy: ±2% ±3 V

High current line / earth loop test 2 wire

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 Ω Range	200 Ω 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 Ω (20 Ω range) ±5% ±0.03 Ω
 0 to 199.9 Ω (200 Ω range) ±5% ±0.5 Ω

Over-voltage safety category

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

Power supply

8 x AA (LR6) alkaline or
 NiMH rechargeable cells.

Maximum altitude

2,000 m

EMC

In accordance with IEC61326-1

IP rating

IP54

Operating temperature range and humidity

-10 °C to +60 °C
 90% RH @+40 °C

Storage temperature range and humidity

-25 °C to +70 °C

Safety

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

Weight

980 gms (2.16 lb)

Dimensions

203 x 148 x 78 mm (8 x 5.8 x 3 in)

ORDERING INFORMATION

Description	Part number	Description	Part number
High current loop tester with red/green lead set	LT300-EN-00	Included accessories	
High current loop tester with BS1363 mains plug lead	LT300-EN-BS	2 wire test lead set (fused) 10 A with croc clips (Only with LT300-EN-FS)	1001-977
High current loop tester complete with fused leads	LT300-EN-FS	Mains plug test lead (BS1363) (LT300-EN-BS)	6220-810
		Hard carry case	5410-409
		2 wire leadset with croc clips	1001-976
		Optional accessories	
		Mains plug test lead (BS1363) (LT300-EN-BS)	6220-810
		2 wire leadset with croc clips	1001-976
		Spar fuse for leads	25950-013

SALES OFFICE

Megger Limited
 Archcliffe Road Dover
 CT17 9EN England
 T +44 (0) 1304 502101
 E UKsales@megger.com

LT300-HI_DS_en_V06

www.megger.com
 ISO 9001
 The word 'Megger' is a registered trademark

