



# 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
- Built-in cover

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### 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

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 high-lighting 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.

## 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 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

### Environmental

**Operating temperature:** -10°C to +60°C  
**Storage temperature:** -25°C to +70°C  
**Humidity:** 90%RH @ +40°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

### EMC

In accordance with IEC61326-1

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

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

## ORDERING INFORMATION

Item (Qty)	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
<b>Included Accessories</b>	
Red/green 2 wire test lead set (LT300-EN-00)	6220-784
Mains plug test lead (BS1363) (LT300-EN-BS)	6220-810
Hard carry case	5410-409
Fused leads ONLY WITH LT300-EN-FS	6220-827
<b>Optional Accessories</b>	
Red/green 2 wire Lead set	6220-784
Mains plug test lead (BS1363)	6220-810

**UK**  
 Archcliffe Road Dover  
 CT17 9EN England  
 T +44 (0) 1304 502101  
 F +44 (0) 1304 207342

Authorized Distributor:  
  
 phone: 800-903-9870 440-378-6580  
 fax: 800-903-9590 440-238-0660  
 www.weschler.com info@weschler.com

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