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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

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 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:

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.

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SPECIFICATION

Voltage measurement range

Voltage range:	0 V to 550 V (400 V @ 16 Hz)
Accuracy:	$\pm ~5\%~\pm 2~V$

Loop test operating frequencies

16 Hz15 Hz to 18 Hz50/60 Hz40 Hz to 70 Hz400 Hz260 Hz to 490 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)	$\pm5\%\pm0.03~\Omega$
0 to 199.9 Ω (200 Ω range)	$\pm5\%\pm0.5~\Omega$

Environmental

Operating temperature:	-10° C to $+60^{\circ}$ 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 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 including amendment No.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		
Included Accessories			
Red/green 2 wire test lead set			
(LT300-EN-00)	6220-784		
Mains plug test lead (BS1363) (LT300-EN-BS)	6220-810		