



## LT544D<sup>LITE</sup> / LT544D<sup>PLUS</sup> Electrical Safety Analyzers

The Dale Technology LT544D<sup>LITE</sup> and LT544D<sup>PLUS</sup> are designed to perform simple electrical safety tests on any type of medical equipment, whenever patient lead testing is not required.

These rugged, hand-held instruments are built for quick and easy use.

The LT544D<sup>LITE</sup> measures earth/chassis resistance, chassis-leakage current, and earth-leakage current. This version is ideal for performing incoming inspections, final inspections, and routine preventative maintenance.

The LT544D<sup>PLUS</sup> measures line voltage, instrument current, earth/chassis resistance, earth-leakage current, chassis-leakage current, and wall-outlet polarity. This version is particularly useful in dialysis clinics, labs, home health-care organizations, service groups, and for technicians who test and maintain medical devices without ECG leads. The portability and flexibility of the LT544D<sup>PLUS</sup> make it the ideal companion for technicians who service multiple locations.

### Key features

- Small, lightweight, self-contained portable instrument
- Universal power supply; input voltage from 85 V ac to 265 V ac
- AAMI load utilization
- Leakage current measured in  $\mu\text{A}$  true-rms

### Specifications

**Line voltage (LT544D<sup>PLUS</sup> only)**  
Range: 85 V ac to 265 V ac  $\pm 1\%$  R  $\pm 1$  LSD  
Resolution: 1 V



LT544D<sup>LITE</sup>

LT544D<sup>PLUS</sup>

### Instrument current

(LT544D<sup>PLUS</sup> only)  
LT544D<sup>PLUS</sup>-1515 Range:  
0 to 14.99 A  $\pm 4\%$  R  $\pm 1$  LSD  
LT544D<sup>PLUS</sup>-2020 Range:  
0 to 19.99 A  $\pm 4\%$  R  $\pm 1$  LSD  
LT544D<sup>PLUS</sup>-230V Range:  
0 to 9.99 A  $\pm 4\%$  R  $\pm 1$  LSD  
Resolution: 10 mA

### Ground resistance

Range: 0 to 19.99  $\pm 1\%$  R  $\pm 1$  LSD  
Resolution: 10 m $\Omega$

### Leakage current

Range: 0 to 1999  $\mu\text{A}$   
Resolution: 1  $\mu\text{A}$

### Accuracy

DC and 25 Hz to 1 KHz:  
 $\pm 1\%$  R  $\pm 3$  LSD  
1 KHz to 100 KHz:  
 $\pm 2.5\%$  R  
 $\pm 3$  LSD  
100 KHz to 1 MHz:  
 $\pm 5\%$  R  $\pm 3$  LSD

### Controls

1. Function Switch:  
2-position rotary (LT544D<sup>LITE</sup>)  
4-position rotary (LT544D<sup>PLUS</sup>)
2. Neutral Switch: 2-position rocker (open/closed)
3. Polarity Switch: 3-position rocker (normal/off/reversed)
4. Leakage Switch: 2-position rocker (chassis/earth)

# LT544D<sup>LITE</sup> / LT544D<sup>PLUS</sup>

## Electrical Safety Analyzers

### DUT power

LT544D<sup>LITE</sup>-1515 and  
LT544D<sup>PLUS</sup>-1515: 85 V ac to  
265 V ac; 15 A @ 120 V  
LT544D<sup>LITE</sup>-1520/2020 and  
LT544D<sup>PLUS</sup>-2020: 85 V ac to  
265 V ac; 20 A @ 120 V; 20 %  
duty cycle  
LT544D<sup>LITE</sup>-230 and LT544D-230:  
10 A @ 230 V

### Dimensions

3.5 in L x 6.2 in W x 1.6 in H  
(9 cm L x 18 cm W x 3.8 cm H)

### Ordering information

#### Model

2250751: LT544D<sup>LITE</sup>-1515  
Electrical Safety  
Analyzer: US/120 V  
15-Amp NEMA power  
plug with 15-Amp  
female power  
connector  
2250760: LT544D<sup>LITE</sup>-1520  
Electrical Safety  
Analyzer: US/120 V  
15-Amp NEMA power  
plug with 20-Amp  
female power  
connector  
2250772: LT544D<sup>LITE</sup>-2020  
Electrical Safety  
Analyzer: US/120 V  
20-Amp NEMA power  
plug with 20-Amp  
female power  
connector

2250785: LT544D<sup>LITE</sup>-230V  
Electrical Safety  
Analyzer: North  
America 230 V power  
plug and female power  
connector  
2250805: LT544D<sup>LITE</sup> Electrical  
Safety Analyzer:  
Schuko/230 V  
2250797: LT544D<sup>LITE</sup> Electrical  
Safety Analyzer:  
Australia/230 V  
2250810: LT544D<sup>LITE</sup> Electrical  
Safety Analyzer:  
Israel/230 V  
2250822: LT544D<sup>LITE</sup> Electrical  
Safety Analyzer:  
Italy/230 V  
2250831: LT544D<sup>LITE</sup> Electrical  
Safety Analyzer:  
Switzerland/230 V  
2250846: LT544D<sup>LITE</sup> Electrical  
Safety Analyzer:  
United Kingdom/230 V  
2250854: LT544D<sup>PLUS</sup>-1515  
Electrical Safety  
Analyzer: US/120 V  
15-Amp NEMA power  
plug with 15-Amp  
female power  
connector  
2250868: LT544D<sup>PLUS</sup>-2020  
Electrical Safety  
Analyzer: US/120 V  
20-Amp NEMA power  
plug with 20-Amp  
female power  
connector

2250879: LT544D<sup>PLUS</sup>-230 V  
Electrical Safety  
Analyzer: North  
America 230V power  
plug and female power  
connector  
2250893: LT544D<sup>PLUS</sup> Electrical  
Safety Analyzer:  
Schuko/230 V  
2250887: LT544D<sup>PLUS</sup> Electrical  
Safety Analyzer:  
Australia/230 V  
2250902: LT544D<sup>PLUS</sup> Electrical  
Safety Analyzer:  
Israel/230 V  
2250916: LT544D<sup>PLUS</sup> Electrical  
Safety Analyzer:  
Italy/230 V  
2250925: LT544D<sup>PLUS</sup> Electrical  
Safety Analyzer:  
Switzerland/230 V  
2250933: LT544D<sup>PLUS</sup> Electrical  
Safety Analyzer:  
United Kingdom/230 V

#### Standard accessories

2392409: Chassis leakage cable,  
coil cord, 8-foot  
extended  
2243751: Operator's manual  
2392584: Soft-sided carrying  
case

#### Optional accessories

2392411: Chassis leakage cable,  
coil cord, 16-foot  
extended  
2231830: Hard-sided carrying  
case



**DALE TECHNOLOGY**

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