

## Salient Characteristics

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### **Fluke Electrical Safety Analyzer ESA620 (Brand Name or Equal)**

#### **1. General**

The Electrical Safety Analyzer is a diagnostic tool used by Biomedical Engineers to assess medical equipment to insure their proper safety and accuracy.

#### **2. Warranty Requirements**

a. Manufacturer must offer a 2-year warranty that product is free from defects in materials and workmanship. All defects will be replaced or repaired by the manufacture at no cost to the buyer.

#### **3. Distinctive Features**

- a. The ESA shall perform the following tests:
- Three Test Loads: Mains, Accessible, and Point-to-Point
  - Two Test Currents: Earth Resistance and Point-to-Point
  - Four Insulation Resistance Tests:
    - Mains-PE
    - AP-PE
    - Mains-NE (non-earthed accessible)
    - AP-NE (non-earthed conductive part)
  - Leakage Tests:
    - earth (ground wire)
    - chassis (enclosure)
    - patient (lead to ground)
    - patient auxiliary (lead to lead)
    - mains on applied (lead isolation)
    - mains on applied part (lead isolation)
    - direct equipment
    - direct applied part
    - alternative equipment
    - alternative applied part
    - accessible
    - point to point
  - ECG Performance Waveforms with a +/- 2% accuracy
- b. Includes 20A receptacle
- c. Includes DSP (digital signal processing) filters
- d. Complies with the following industry standards
- IEC60601:2005
  - EN62353
  - VDE 751
  - ANSI/AAMI ESI: 1993
  - NFPA-99
  - AN/NZS 3551
  - IEC61010