Electrical Safety Analyzers
Automated global compliance and safety testing

Complete electrical safety testing from an ISO 13485 medical device company.
New!
ESA609 Electrical Safety Analyzer

Rugged, portable and easy-to-use analyzer designed for general electrical safety testing

The ESA609 integrates all functions needed to test medical devices when patient lead testing is not required, including: line (mains) voltage, ground wire (protective earth) resistance, equipment current, leakage current and point-to-point tests. Versatile to global electrical safety standards of choice, the ESA609 tests to ANSI/AAMI ES1, NFPA-99, and parts of IEC62353 and IEC60601-1.

- Rugged
- Portable
- User-friendly
**Rugged**
Engineered for on-the-go technicians, the ESA609 is one of the most rugged electrical safety analyzers in its class.
- A rubberized case prevents damage if accidentally dropped.
- Ingress Protection rating of IP30 keeps out dirt and dust.
- Rigorous safety and quality testing ensures it’s as tough as necessary.

**Portable**
Effortlessly transport the ESA609 from one location to another.
- Featherweight (1.5lb) design
- Functional strap for easy hand-held operation
- Tilt stand allows for easy set-up
- Carrying case conveniently organizes cables and lead kits

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**User-friendly**
Easy-to-use interface ensures complete basic testing in minutes.
- Simple design requires no training to use.
- Quick push-button operation for rapid testing.
- Measurements shown clearly on large screen.
- Removable memory card for fast and convenient data storage and exchange.
ESA612
Electrical Safety Analyzer

The combined power of a simulator, multimeter and electrical safety analyzer in a single, portable device.

• Small, lightweight and easy to use
• One-button access to most applications
• Multipurpose simulator, multimeters and safety analyzer
• Replaceable mains fuses keep device in the field and out of the shop

ESA615
Electrical Safety Analyzer

The automated ESA615 Electrical Safety Analyzer performs all primary electrical safety tests, ECG simulation, point-to-point voltage, leakage and resistance tests to the latest electrical safety standards.

• Automation inside
• Newest standards compliance
• Data management made easy
• Simple, multi-language user interface
ESA620
Electrical Safety Analyzer

Comprehensive electrical safety testing to global standards: the preferred test tool for IEC60601-1 compliance.

- 25 A test capability for IEC60601-1 compliance
- 10 Safety-enhanced insulated applied parts connections
- Optional Ansur software automates testing, standardizes test procedures, streamlines reporting and communicates results to CMMS systems
- Expanded leakage ranges through 10,000 µA
- Compliance with multiple global standards
Compare and decide

Selecting the right tool for you

Three questions to ask when choosing your new analyzer.

Selecting the right analyzer for your testing needs can be daunting, but most electrical safety analyzer selections come down to these simple questions.

Do you need 25A PE test current capability?

NO

Do you prefer an analyzer with on-board automation?

NO

Do you need to test applied parts?

YES

We recommend the ESA609

YES

We recommend the ESA612

YES

We recommend the ESA620

We recommend the ESA615
<table>
<thead>
<tr>
<th>Basic overview</th>
<th>ESA609</th>
<th>ESA612</th>
<th>ESA615</th>
<th>ESA620</th>
<th>601 Pro SeriesXL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automation inside</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Ansur compatible</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>On-board memory</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>ECG simulation</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Multi-language selection</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Wireless communication</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Handheld</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Removable memory card</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>GFCI protection</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>20 A test capability</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>25 A test capability</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
</tbody>
</table>

| Detailed comparison | | | | | |
| Test modes | Manual | Manual if preferred | Automated if preferred | Manual if preferred | Automated (limited; manual testing required to meet newest standards) |
| Test loads | ANSI/AAMI ES1 IEC6060-1 | AAMI IEC6060-1 | AAMI IEC6060-1 | AAMI IEC6060-1 | AAMI IEC6060-1 |
| Mains voltage measurement | All lines | All lines | All lines | All lines | All lines |
| PE Test current | >200 mA dc | 200 mA ac | 200 mA ac | 200 mA ac | 25 A ac |
| Leakage results parameters | True-rms | True-rms (ac only, dc only) | True-rms (ac only, dc only) | True-rms (ac only, dc only) | True-rms (dc only) |
| Leakage range | 0.0 μA to 1999.9 μA | 0 μA to 10,000 μA | 0 μA to 10,000 μA | 0 μA to 10,000 μA | 0 μA to 20 mA (differential only) |
| Patient auxiliary leakage lead selections | N/A | Any 1 to all | Any 1 to all | Any 1 to all | Any 1 to all |
| MAP test voltage | N/A | 100 % of mains | 100 % of mains | 110 % or 100 % of mains, pending standard selected | 110 % of mains |
| Power supply (V ac) | 90 to 264 | 120 or 230 | 120 or 230 | 120 or 230 | 120 or 230 |
| Applied parts connections | N/A | 5 banana safety jacks Bj2ECG adapter 1-to-10 Expander | 5 banana safety jacks Bj2ECG adapter 1-to-10 Expander | 10 insulated posts | 10 banana safety jacks |
| Language selection | English | English, French, German, Spanish, Italian, Portuguese | English | English, French, German, Italian | |
| Communication options | N/A | Wired | Wireless if preferred | Wired | Wired |
| Data entry options | N/A | Onboard keypad | Onboard keypad USB compatible keyboard Barcode scanner | Onboard keypad PS/2 keyboard Barcode scanner | PS/2 keyboard Barcode scanner |
| Printer port | N/A | Available via Ansur | Available via Ansur | Available via Ansur | Parallel Printers |
| Dual lead testing | μA/mV, and Ω | μA/mV, and Ω | μA/mV, and Ω | μA/mV, and V | Parallel Printers |
| Connectivity | N/A | USB | USB | USB | USB |
| Power cord | Removable | Removable | Removable | Removable | Removable |
| Weight | 0.7 kg (1.5 lb) | 1.6 kg (3.5 lb) | 1.6 kg (3.5 lb) | 4.7 kg (10.25 lb) | 7.7 kg (17 lb) |
| Dimensions (L x W x H) | 22.9 cm x 17.8 cm x 6.4 cm (9 in x 7 in x 2.5 in) | 17.6 cm x 8.4 cm x 28.5 cm (6.9 in x 3.3 in x 11.2 in) | 17.6 cm x 8.4 cm x 28.5 cm (6.9 in x 3.3 in x 11.2 in) | 31 cm x 23 cm x 10 cm (12.2 in x 9.1 in x 3.9 in) | 31 cm x 23 cm x 10 cm (12.2 in x 9.1 in x 3.9 in) |
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