



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





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Rugged

Engineered for on-the-go technicians, the ESA609 is one of the most rugged electrical safety analyzers in its class

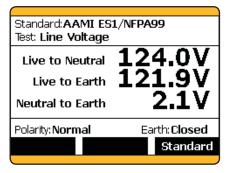
- A rubberized case prevents damage if accidentally dropped
- Ingress Protection rating of IP30 keeps out dirt and dust
- Rigorous safety and quality testing ensures it's as tough as necessary



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 kitsy



Standard: AAMI ES1/NFPA99
Test: Chassis Leakage

8.3 µA

Earth: Open
Closed Gnd Lkg Standard

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

Normas internacionales de seguridad

Normes de sécurité internationals



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





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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









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1	edles Dru	F04000	E04040	E0404E	F04000	COA Dura Carria aVI
7		ESA609	ESA612	ESA615	ESA620	601 Pro SeriesXL
	Basic overview					
	Preferred analyzer for which standard?	ANSI/AAMI IEC62353	IEC62353, ANSI/AAMI (NFPA-99)	IEC62353, ANSI/AAMI (NFPA-99)	IEC60601-1 2nd, 3rd edition , IEC62353 and ANSI/ AAMI (NFPA-99)	IEC60601-1 2nd edition
İ	Automation inside			•		•
I	Ansur compatible		•	•	•	
(n-board memory		•	•		•
H	CCG simulation		•	•	•	•
I	Multi-language selection			•		•
7	Vireless communication			•		
I	Iandheld	•	•	•		
I	Removable memory card			•		
(GFCI protection		•	•	•	
I	OUT load current	•	•	•	•	•
2	20 A test capability	•	•	•	•	•
2	25 A test capability				•	•
1	Detailed comparison					
7	est modes	Manual	Manual Ansur-automatable	Automated Manual if preferred	Manual Ansur-automatable	Automated (limited; manual testing required to meet newest standards)
7	'est loads	ANSI/AAMI ES1 IEC6060-1	AAMI IEC60601-1	AAMI IEC60601-1	AAMI IEC60601-1 IEC61010	AAMI IEC60601-1 IEC61010
	Mains voltage neasurement	All lines	All lines	All lines	All lines	All lines
I	PE Test current	>200 mA dc	200 mA ac	200 mA ac	200 mA ac 25 A ac	1 A ac 10 A ac 25 A ac
	eakage 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
I	eakage range	0.0 μA to 1999.9 μA	O μA tO 10,000 μA O μA to 20 mA (differential only)	Ο μΑ tO 10,000 μΑ Ο μΑ to 20 mA (differential only)	Ο μΑ tO 10,000 μΑ Ο μΑ to 20 mA (differential or 61010 only)	Ο μΑ to 8000 μΑ to 16,000 μ (61010 only)
	Patient auxiliary leakage ead selections	N/A	Any 1 to all	Any 1 to all	Any 1 to all RA-LL-LL-LA RA-LA	Any 1-5 to all V1-16 to all
I	MAP test voltage	N/A	100 % of mains	100 % of mains	110 % Or 100 % of mains, pending stan- dard selected	110 % of mains
I	ower 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
I	anguage selection	English	English	English, French, German, Spanish, Italian, Portuguese	English	English, French, German, Italian
(Communication options	N/A	Wired	Wireless Wired if preferred	Wired	Wired
I	Oata entry options	N/A	Onboard keypad	Onboard keypad USB compatible key- board Barcode scanner	N/A	Onboard keypad PS/2 keyboard Barcode scanner
F	rinter port	N/A	Available via Ansur	Available via Ansur	Available via Ansur	Parallel
I	Oual lead testing	μ A/mV, and Ω	μA/mV, V and Ω	μΑ/mV, V and Ω	μΑ/mV, V and Ω	μA/mV and V
(Connectivity	N/A	USB	USB	USB	RS-232, parallel printer
I	ower cord	Removable	Removable	Removable	Removable	Removable
7	Veight	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)
I	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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