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# Electrical Safety Analyzers Selection Guide

**1-800-850-4608**

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# Electrical Safety Analyzers

							
Model	175	180	ESA612	ESA620	ESA601	medTester 5000C	601 Pro Series <sub>™</sub>
Specifications							
Test modes	Manual	Manual	Manual Automated with Ansur	Manual Automated with Ansur	Manual Automated with Ansur	Automatic Manual	Automatic Stepwise Manual
Test loads	AAMI IEC60601-1	AAMI	AAMI IEC60601-1	AAMI IEC60601-1 IEC61010	AAMI IEC60601-1	AAMI	AAMI IEC60601-1 IEC61010
On board memory	No	No	Yes	No Available with Ansur	No Available with Ansur	Yes	Yes
Mains voltage measurement	Yes, hot to neutral	Yes, hot to neutral	Yes, all lines	Yes, all lines	Yes, hot to neutral	Yes, all lines	Yes, all lines
PE test current	10 mA dc	10 mA dc	200 mA ac	200 mA ac 25 A ac	1 A dc	100 mA dc	1 A ac 10 A ac 25 A ac
Leakage results parameters	True-rms	True-rms	True-rms AC only DC only	True-rms AC only DC only	True-rms	True-rms	True-rms DC only
Leakage range	0 µA to 1999 µA	0 µA to 1999 µA	0 µA to 10,000 µA 0 µA to 20 mA (differential only)	0 µA to 10,000 µA 1 µA to 20 mA (differential or 61010 only)	0 µA to 8000 µA, 0 µA to 10 mA (differential only)	0 µA to 2000 µA	0 µA to 8000 µA 0 µA to 16000 µA (61010 only)
Patient aux leakage lead selections	N/A	Any 1 to all	Any 1 to all	Any 1 to all RA-LL LL-LA RA-LA	Any 1 to all	Any 1 to all	Any 1 - 5 to all V1 - V6 to all
MAP test voltage	100 % of mains	100 % of mains	100 % of mains	110 % or 100 % of mains, pending standard selected	110 % mains	100 % of mains	110 % of mains
DUT load current	Yes	Yes	Yes	Yes	No	Yes	Yes
20 A device testing	No	Yes	Yes	Yes	No	Yes	No
ECG waveforms	No	No	Yes	Yes	No	Yes	Yes
Power supply (V ac)	120 to 230	120 to 230	120 or 230	120 or 230	120 to 230	120	120 to 230
Applied parts connections	N/A	5 posts	5 banana safety jacks BJ2ECG adapter 1210 expander	10 insulated posts	10 banana safety jacks	10 posts	10 banana safety jacks
Printer port	No	No	No, available via Ansur	No, available via Ansur	Yes, serial	Yes, parallel	Yes, parallel
Software	N/A	N/A	Yes (Ansur plug-in)	Yes (Ansur plug-in)	Yes (Ansur plug-in)	N/A	OTIS (no longer supported)
Dual lead testing	Yes, µA/mV, and Ω	Yes, µA/mV, and Ω	Yes, µA/mV, V and Ω	Yes, µA/mV, V and Ω	Yes, µA/mV, V and Ω	Yes, µA/mV, V and Ω	Yes, µA and V
Connectivity	N/A	N/A	USB port	USB port	RS-232, serial printer	RS-232, parallel printer	RS-232, parallel printer
GFCI protection	No	No	Yes	Yes	No	Yes	No
Power cord	Hardwired into device	Hardwired into device	Removable	Removable	Removable	Hardwired into device	Removable
Weight	0.9 kg (2 lb)	0.9 kg (2 lb)	1.6 kg (3.5 lb)	4.7 kg (10.25 lb)	2.4 kg (5.2 lb)	5 kg (11 lb)	7.7 kg (17 lb)
Dimensions (LxWxH)	13.3 cm x 18.4 cm x 5.4 cm (5 in x 7 in x 2.1 in)	13.3 cm x 18.4 cm x 5.4 cm (5 in x 7 in x 2.1 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)	24.9 cm x 21.1 cm x 7.6 cm (9.8 in x 8.3 in x 3 in)	25.4 cm x 35 cm x 10.2 cm (10 in x 13.8 in x 4 in)	41.4 cm x 27.9 cm x 12.7 cm (16.3 in x 11 in x 5 in)