



# Simulator & Tester

Performance comes from innovation



# SEC160

New Generation of ECG Simulator

## SEC160

- Compact
- Easy to use
- 37 normal und pathological Heart Rates
- "Artificial" beat types as required by IEC EN 60601-2-51

## Multifunctional

The SEC160 is a new generation of ECG simulator. Compact, handy and digital the SEC160 simulates not only normal und pathological beat series, but also "artificial" ones as required by IEC EN 60601-2-51/Appendix II.

The SEC160 provides

- Six beat series with 37 normal und pathological beat types
- Six beat series with 114 beat types in accordance with IEC EN 60601-2-51

## Easy to use

The mixprogram offers a typical selection of normal and pathological beat types. It provides various ECG beat forms for more than 20 minutes. The beat series and beat types are shown and selected in the display.

## Connector

The device to be tested or the terminals are connected to the SEC160 via ten electrode banana plugs.



With inserted pushbutton contacts, you can also connect patient cables with electrode clips.



## Specifications

LCD Display	132 x 64 Dots on 50 x 30 mm
Menu Language	English - German
Digital resolution	16 Bit, 38 mV/digit
Precision of output signals	at 25 °C ±(1,0% + 8 μV) from the respective value of the standard ECGs in IEC 60601-2-51/Appendix II
Output impedance	RA, LA, LL, V1-V6 115 Ohm
Temporal resolution	Sampling rate 1 ms, 0.2%
Calibration	Traceable to PTB and NIST
Power Supply	2 x Mignon (AA) NiMH-, NiCd-Rechargeablebatteries (1.2 V) or 1.5-V primary batteries
Dimensions and Weight	Approx. 120 x 70 x 47 mm Approx. 200 grams including batteries
Environmental condition	
Ambient Operating Temperature Range	10 to 40°C
Storage Temperature Range	-10 to 60°C
Operating and Storage Humidity	85% max
Relative humidity non-condensing from	0 to 50°C

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