

# Defibrillator Analyzer

## DELTA 3000



**DELTA 3000**, Defibrillator Analyzer / Pacemaker Tester is the latest addition of our Defibrillator Analyzer with full Pacer Tester and ECG Simulator built in.

**DELTA 3000**, Defibrillator Analyzer / Pacemaker Tester combines the complete testing functions of a Defibrillator Tester, a Pacemaker Analyzer, and a 12 Lead ECG / Arrhythmia simulator into one compact, lightweight, and easy to use instrument. No other instrument delivers the performance testing power of the **DELTA 3000** Defibrillator Analyzer / Pacemaker Tester.

**DELTA 3000**, Defibrillator Analyzer / Pacemaker Tester tests all defibrillators including AEDs. It measures both monophasic and bi-phasic waveforms. It tests all external pacemakers including Transthoracic, Transvenous, and AV sequential models. It has 12 built-in user selectable test loads for Transthoracic pacing testing. The built-in ECG / Arrhythmia simulator allows performance testing of any ECG equipment.

### Features:

- Compact, Lightweight, and Rugged
- Simple, Menu Driven Operation
- Large 4-line LCD
- Simultaneous Display of All Test Measurements
- Dedicated Print Key for Immediate Documentation
- RS 232 Interface
- Battery or AC Operation
- Two-Year Warranty



### Measurements:

- Measures: Energy, Peak Voltage, Peak Current, and Cardio Sync. Time
- Storage and Playback of output waveforms
- Tests all External Pacemakers - Transthoracic, Transvenous, and AV Pacers
- Measures: Amplitude, Rate, Pulse Width, Pulse Energy, Sensed and Paced Refractory Periods
- 50 and 60 Hz Immunity Tests
- Transthoracic Test Loads: Fixed 50 Ohm or 12 User Selectable Loads to 1000 Ohms
- A / V Pacer Test Load: 500 Ohm
- ECG Simulator:
  - Tests all ECG Equipment, 12 lead ECG, User Selectable Rates and Amplitudes
  - Performance Waveforms: Sine, Square, Triangle, and Pulse, 12 Arrhythmias



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### Specifications:

#### Defibrillator Analyzer

Energy Measurement: Load: 50 Ohm  $\pm 1\%$

Range (High): 900 J, Res. 1 J

Resolution: 1 Joules, Range (Low): 0 - 100

Resolution: 0.1 Joules, Accuracy:  $\pm 2\%$  of the reading + 1 J for Hi Range or + 0.5 J for Low Range

Maximum Voltage: 5200 V

Maximum Current: 100 Amp (H)

Sync. Time: 0 - 250 ms

Waveform Output: Real Time: Output 1000 : 1 Stored.

Discharge waveform expanded 200:1 and is repeated 8 sec. It can be viewed through the paddles and through the ECG High Level Output

#### Pacemaker Analyzer

Transcutaneous:

Test Load: 50 Ohm (Fixed) and variable 100 to 1000 Ohms user selectable

Current: 1 to 200 mA, Accuracy:  $\pm 5\% + 0.5$  mA

Pulse Width: 0.5 to 80 ms, Accuracy:  $\pm 1\% + 0.1$  ms

Refractory: 20 - 500 ms, Accuracy:  $\pm 2\%$  or + 10 ms

Atrial and Ventricular:

Test Load: 500 Ohms

Current: 1 to 25 mA, Accuracy:  $\pm 5\% + 0.5$  mA

Pulse Rate: 30 to 800 ppm, Accuracy:  $\pm 1\% + 0.1$  ms

Refractory:  $\pm 20$  - 500 ms, Accuracy:  $\pm 2\%$  or 10 ms

Immunity Test: 50 / 60 Hz

#### General

Power Requirements:

Two-9V Alkaline Batteries Or AC Adapter

Dimension:

10 x 11 x 2.25 inches (25.4 x 27.9 x 5.7 cm)

Weight: 4 lbs (1.8 kg)

Environmental:

Operating Temperature: 59° to 95° F (15° to 35° C), Storage Temperature: 32° to 131° F (0° to 55° C)

#### ECG Arrhythmia Simulator

ECG: Normal Sinus Rhythm.

Rate: 30, 60, 90, 120, 240

Performance: Sine, Square, Triangle and Pulse

Rate: 0.5, 1, 2, 10, 15, 20, 25, 40 Hz

Arrhythmias:

VFBC, VFBF, VTAC, AFIB, PVC,

PVC1, PVC2, BGY, RBB, AFIB,

ATRFT, NSR

Waveform Output: 12 Lead ECG and Paddle and High Level Output

### Ordering Information:

#### Description

Defibrillator / Pacemaker Analyzer with Transcutaneous A-V Pacer Analyzer

Defibrillator / Pacemaker Analyzer with Transcutaneous/Transvenous Analyzer



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