



★ **Compact** ★ **Easy to Use** ★ **Best Value**

OVERVIEW

The Delta 3300 Defibrillator / Transcutaneous Pacemaker Analyzer is a precision instrument for testing defibrillators and external (Transcutaneous) Pacemakers. It combines the complete testing functions of a Defibrillator Tester, Transcutaneous Pacemaker Analyzer and 12-Lead ECG / Arrhythmia Simulator into one compact, lightweight, and easy to-use instrument.

The Delta 3300 tests all Defibrillators including AEDs. It measures both monophasic and bi-phasic waveforms. It is compact, light weight and easy to use. The test results can be saved in the internal memory and uploaded to the PC and printed using ProCom Print software (CD included with the unit).

PRODUCT HIGHLIGHTS

- Energy and cardio version measurement
- Peak voltage and current reading
- Waveform storage and Play back.
- Tests all Automated defibrillators
- Pacemaker loads from 50 to 1100 Ohms
- Pacer Amplitude, Rate, Pulse width
- Demand Sensitivity, Refractory period, immunity and pulse Energy
- 12 Lead ECG, Arrhythmia, Performance
- Li-Ion Rechargeable Battery

FEATURES

- Large LCD Display with Backlight
- Simple and easy to use
- Compact & Light weight (3lbs)
- Test results can be saved & upload to PC using Netech ProCom-Print software
- Li-Ion Rechargeable Battery
- Hard Carrying case
- 2 Year Warranty
- Incredible Value

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DEFIBRILLATOR ANALYZER

Energy Output Measurement:

Maximum Energy: 800 J
Display Resolution: Based on Auto Range
Auto Range: 2 - 9.99 J, 10-99.9 J, 100-800 J
Resolution: 0.01 J (2 - 9.99), 0.1 J (10-99.9), 1 J (100-500)
Accuracy: $\pm 1\%$ of reading ± 0.1 J (2-9.9), ± 1 J (10-99), $\pm 2\%$ (100-500) ± 1 J

Load Resistance:

50 ohms $\pm 1\%$; non-inductive ($< 1 \mu\text{H}$)
Sampling Time: 20 μs
Measurement Time Window: 60 ms
Absolute Max Peak Voltage: 5000 V
Absolute Max Peak Current: 100 A
Pulse Width: 60 ms

High Level Output:

High Range: 100:1 amplitude attenuation
Low Range: 200:1 amplitude attenuation

Waveform Storage / Playback:

Discharge can be viewed via ECG outputs and paddles.

Sync Time Measurements:

Timing Window:
Starts: 40 ms at each R wave peak
Test Waveforms:
All Waveform simulations available
Delay Time Accuracy: ± 1 ms

Charge Time Measurement: 30 to 60 in steps of 15 seconds.

GENERAL INFORMATION

Temperature Range:

Operating: $+15^{\circ}\text{C}$ to $+35^{\circ}\text{C}$
Storage: 0°C to $+50^{\circ}\text{C}$

Display:

Type: LCD with LED backlight

Data Input/Outputs :

RS-232C (1) for Computer control
Power: 7.4 Volt Li-Ion Battery
100-230 VAC input, 850 mA DC Charger

Housing:

High impact ABS Plastic case

DIMENSIONS: D x W x H:

10.25 x 6.25 x 2.5 Inch
26 X 16 x 6.4 Cm

Weight: 1.5 kg / 3.3 lbs.



ProCom Print
Software Included (Basic Version)

TRANSCUTANEOUS PACEMAKER ANALYZER

Test Load Range:

50 -1100 Ohms in steps of 100 Ohms.
Accuracy: 50 - 500 ohm $\pm 1\%$
500 - 1100 ohm $\pm 1.5\%$

Pulse Measurements:

Amplitude: 4 to 400 mA (50 ohm load)
Accuracy: $\pm 1\%$ or ± 1 mA
Max. amplitude: 400 mA (50 Ohm Load)
Rate: 30 to 800 ppm
Accuracy: $\pm 1\%$ or 2 ppm
Pulse Width: 0.5 to 50 ms
Accuracy: $\pm 1\%$ or ± 0.3 ms

Demand Sensitivity Test:

Waveforms: QRS, Square(SQR), Triangle(TRI), and Haversine (SSQ)

Waveform width: 40, 50, 60, 70, 80, 90, 100, 200, 300, 400 ms

Pacer Rate: 30 to 120 ppm

ECG Output:

Amplitude: User Selectable 0.1 - 5 mV

Pacer Input (Load dependent):

Amplitude (50 ohm): 0 - 10 mV
Resolution (50 ohm): 25 μV
Amplitude: (500 ohm): 0 - 100 mV
Resolution: (500 ohm): 1 mV
Accuracy: $\pm 2\%$

Immunity Test:

Interference Signal: 50/60 Hz
ECG signal Amplitude: 0.5 to 5.0 mV

Refractory Period Measurement:

20 to 500 ms (both Pacing and Sensing)
Accuracy: ± 5 ms



PATIENT SIMULATOR

ECG General:

Lead Configuration: 12-lead simulation
RL, RA, LA, LL, V1-6
Output Impedance: RL to All leads 1000 Ohms, V Leads: 1000 ohms to RL
High Level Output: 0.5 V/mV of low level (lead II)
Rates: 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 220, 240, 260, 280, 300 & 310 BPM
Accuracy: $\pm 1\%$
Amplitude: User Selectable 0.1 - 5 mV (Lead II)
Accuracy: $\pm 2\%$ @ Lead II (SQR)

Arrhythmia Selections:

Ventricular Fibrillation Coarse (VFBC)
Ventricular Fibrillation Fine (VFBF)
Ventricular Tachycardia (VTAC)
Atrial Fibrillation (AFIB)

Performance Waveforms:

Sine, Square, Triangle:
Rate: 0.2, 0.3, 0.4, 0.5, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60 Hz.
Amplitude: 0.1, 0.25, 0.50, 1, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0 mV.
Amplitude accuracy: $\pm 2\%$
(Square Wave -Lead II 1.0 mV)
Pacer Pulse:
Pulse Width: 10mS
Amplitude: 1.0 mV (Lead II)
Accuracy: $\pm 2\%$

Ordering Information

Part No:

660: DELTA 3300 Defibrillator / Transcutaneous Pacemaker Analyzer
Included all Standard Accessories.

Standard Accessories:

660-PADDLE-ADAP: Defibrillator Paddle Adapter
660-LI-Charger: Li-Ion Battery Charger
660-610-6383: Transcutaneous / AED Interface Cable (Open-ended)
660-HARD-CASE: Carrying Case
660-152345: RS-232 Interface Cable
660-CD: User & Service Manual Delta 3300
660-ProPrint: ProCom Print Software

Optional Accessories:

660-651-HP: Paddle Adapter Interface cable for HP/Philips
660-651-Zoll: Paddle Adapter Interface cable for Zoll
660-908: Medtronic Interface cable
660-RS-232-USB: Standard RS 232 to USB cable

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