

Testing system for function tests of defibrillators, external cardiac pacemakers and ECG simulation in accordance to IEC 60601-2-4 / IEC 60601-2-31

- ☑ line- and accumulator operation
- ☑ cursor driven menu or PC control
- ☑ graphical display of the discharge plot
- ☑ measuring of pulsed biphasic is possible
- ☑ ECG ouput for all ECG revulsions
- ☑ stop clock function for charge and discharge times
- ☑ user specific language settings





Technical Data

Line voltage:

83 - 264 V ac, 50 / 60 Hz

Nominal power: Protection class:

Environmental temperature: Storage temperature: -10 - +50 °C

Function:

DFFI

Measurement at: Measurement range:

Sensitivity:

Measuring time:

Measurement at: Voltage measurement:

Frequency measurement: AV delay time: Demand frequency: Inhibition frequency: Refractory time: Sensitivity:

FCG

Pulse forms:

or internal accumulator operation max. 25 VA

+5 - +40 °C

asynchronously, synchronously, biphasic

Range1 ± 400 V Range2 ± 4000 V 0 - 80 A0 - 1000 J 1 V 24/48 ms, dt 20 µs

transthoracic, intracardial

50 - 1600 Ohm in 50 Ohm steps 0,5 - 277,5 V

automatic measuring change - over 30 - 1200 BPM

10 - 400 ms55 - 100 BPM 55 - 100 BPM 50 - 400 ms0.5 - 25 mV

12 channel FCG

sinus, square sinus, triangle, rectangle, trapeze. ISO, ventricular fibrillations (VF), ventricular tachycardia (VT), line

frequency, NSR

Measurement Range DEFI

Resistor: 50 Ohm 0 - 1000 Joule Energy

Pulse width: 0 - 48 msPulse delay time: 0 - 100 ms

PACE

Pulse voltage: 0,5 - 277 V

Pulse length: 0.1 - 250 msFrequency measuring: 30 - 1200 BPM

Time Measurement: 1 - 1000 sec

Interface: Testing device

connection:

Digital display: Keyboard: Accessories:

Dimensions: Weight: Selectable languages: 1 x RS-232 for PC-connection 2 Paddle sensor components with integrated 4 mm sockets for DEFI 4 sockets 4 mm for PACE 10 sockets 4 mm for ECG

4 x 20 char display 6 key foil keyboard 1 x RS-232 interface cable

Error

+ 1 %

+ 1 Joule or + 1 % of.

measurement value

± 0.1 ms or ± 2 % of measurement value

 \pm 0,1 ms or \pm 2 % of measurement value

 $\pm 0.1 \text{ V or } \pm 5 \% \text{ of }$

measurement value

measurement value

measurement value

+1%

 \pm 1 BPM or \pm 0,5 % of

 \pm 1 ms or \pm 5 % of

Line cable 10 x STA8

Mechanical data: Light weight metal case IP20 313 x 220 x 80 mm (W x H x D) approx. 2 kg

german, english, french, polish, spanish, italian, portuguese,

turkish

DP-300 is a defibrillator testing system for the examination of defibrillators, external cardiac pacemakers and is useful as a test generator for the Electro-Cardiogram (ECG) functions. It can be operated with main voltage and with internal accumulators.

The defibrillator testing system can be used as a stand-alone device, but also in connection with the PC.

The DP-300, as a defibrillator testing device, is in use for the functional testing of external monophasic, biphasic and pulsed biphasic defibrillators. The delivered defibrillator energy is measured on a load resistance of 50 Ohm. Furthermore, the voltage curve can be graphically displayed when operating with PC. The tests can be done in the synchronous and asynchronous mode. Synchronous mode differs between paddle synchronous and monitor synchronous defibrillators.

DP-300, as a cardiac pacemaker testing device, serves for the functional testing of external one circuit or dual circuit cardiac pacemakers for intracardial or transthoracic stimulation, operating with asynchronous or demand pulses. The pulse amplitude, the pulse time, the pulse frequency and the AV delay time could be measured. Furthermore, it is possible to determine the refractory time, the sensitivity and the demand frequency automatically with a programmable test signal.

ECG simulation serves for ECG impulse output to defibrillators and ECG. The pulse parameters are variable.

(The specified measuring accuracy refers to the measuring element. Technical modifications and errors reserved. 01/2024)



