



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

- ☒ single-, dual- and triple-circuit cardiac pacemakers
- ☒ polarity independent measurement of defibrillation impulses
- ☒ graphical display of the discharge plot
- ☒ touch screen or PC control
- ☒ ECG output for all ECG revulsions
- ☒ stop clock function for charge and discharge times
- ☒ asynchron-, synchron- and AED testing
- ☒ user specific language settings

Technical Data

Line voltage:	18 V (external power supply) or internal accumulator operation	DEFI	range	error
Rated capacity:	max. 25 VA	Load resistance:	50 Ohm	± 1 %
Protection class:	internal power supply	Energy	0 – 1000 Joule	± 1 Joule or ± 1 % of measurement value
Environmental temperature:	+ 5 - + 40 °C	Pulse width:	0 – 48 ms	± 0,1 ms or ± 2 % of measurement value
Storage temperature:	- 10 - + 50 °C	Pulse delay time:	0 – 100 ms	± 0,1 ms or ± 2 % of measurement value
Function:		PACE		
DEFI	asynchronously, synchronously, biphasic	Load resistance:	50 -150 Ohm	± 2 %
Load resistance:	50 Ohm		200 -1600 Ohm	± 1 %
Measurement range:	Range1 ± 850 V Range2 ± 4400 V 0 – 80 A 0 – 1000 J 1 V	Pulse voltage:	0,1 - 300 V	± 0,1 V or ± 5 % of measurement value
Sensitivity:	48 ms, dt 20 µs (50,0 kHz)	Pulse length:	0,1 – 250 ms	± 1 ms or ± 5 % of measurement value
Measurement duration:	6, 12, 24, 48 ms	Frequency measuring:	30 – 1200 BPM	± 1 BPM or ± 0,5 % of measurement value
Display:		ECG amplitude:	1 - 25 mV	± 5 %
PACE	transthoracic, intracardial	Delay time:	5 - 400 ms	± 5 %
Load resistance:	50 – 1600 Ohm in 50 Ohm steps	Demand frequency:	55 - 100 BPM	± 1 %
Measurement range:	Range1 ± 30 V Range2 ± 300 V	Inhibition frequency:	55 - 100 BPM	± 1 %
Frequency measurement:	30 - 1200 BPM	Refractory time:	50 - 400 ms	± 10 %
Delay time:	5 - 400 ms	Sensitivity:	0,5 - 25 mV	± 10 %
Demand frequency:	55 - 100 BPM	Time Measurement:	1 – 1000 sek	± 1 %
Inhibition frequency:	55 - 100 BPM	Testing device connection:		
Refractory time:	50 - 400 ms	DEFI	2 Paddle sensor components with integrated 4 mm sockets	
Sensitivity:	0,5 - 25 mV	PACE	6 x 4 mm sockets	
Measurement duration:	2148 ms, dt 33 µs (30,3 kHz)	ECG	10 x 4 mm sockets	
Display:	8, 16, 32, 64 ms	Accessories:	1 x charger 10 x STA8 ECG adapter clip 1 x USB cable type A	
ECG	12 channel ECG	Mechanical data:	Light weight metal case IP20	
Pulse forms:	sine, sine square, triangle, rectangle, trapeze, ISO, ventricular fibrillations (VF), ventricular tachykardie (VT), line frequency, NSR	Dimensions:	235 x 90 x 330 mm (W x H x D)	
Digital display:	4,3" TFT-Display	Weight:	approx. 2,5 kg	
Operation:	Touch panel	Selectable languages:	german, english, french, polish, spanish, italian, portuguese, turkish	
Interface:	1 x USB 3.0, without charging function			

DP-600 is a defibrillator testing system for functional tests of defibrillators, external cardiac pacemakers and is useful as a test generator for the Electro-Cardiogram (ECG) functions. It can be operated with power adapter and with internal accumulators. The defibrillator testing system can be used as a stand-alone device, but also in connection with the PC.

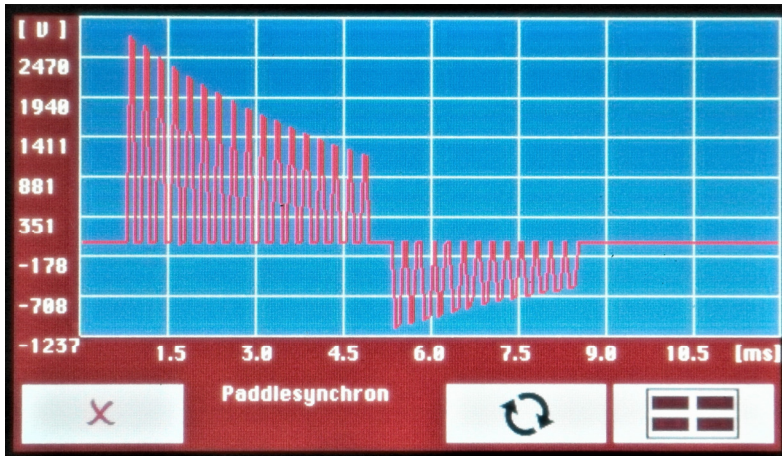
The DP-600, as a defibrillator testing device, is in use for the functional testing of external monophasic, biphasic and pulsed biphasic defibrillators. The delivered defibrillator energy is measured on a load resistance of 50 Ohm. Furthermore the voltage curve can be graphically displayed. The tests can be done polarity independent in the synchronous and asynchronous mode.

Synchronous mode differs between paddle synchronous and monitor synchronous defibrillators.

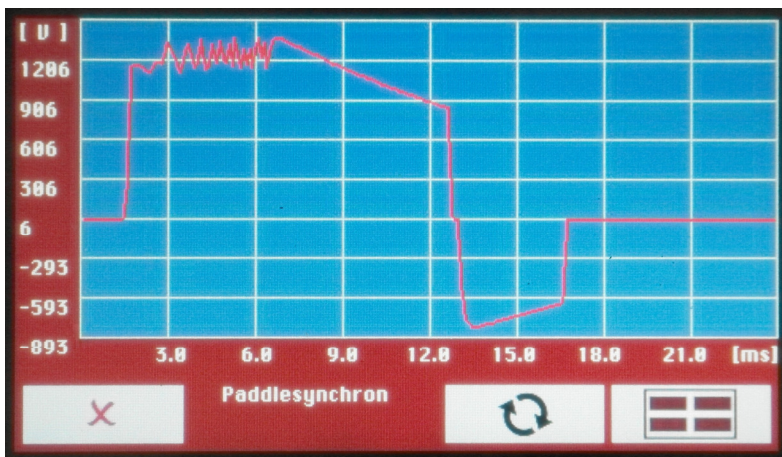
DP-600, as a cardiac pacemaker testing device, serves for the functional testing of external single, dual or triple circuit cardiac pacemakers for intracardial or transthoracic stimulation, operating with asynchronous or demand pulses. The pulse amplitude, the pulse time, the pulse frequency and the delay time (AV / VV) could be measured. Furthermore the voltage curve can be graphically displayed. The refractory time, the sensitivity as well as the demand and inhibition frequency are automatically determined by means of the generated test signal. ECG stimulation serves for ECG impulse output to defibrillators and ECG.

(The specified measuring accuracy refers to the measuring element. Technical modifications and errors reserved. 07/2023)

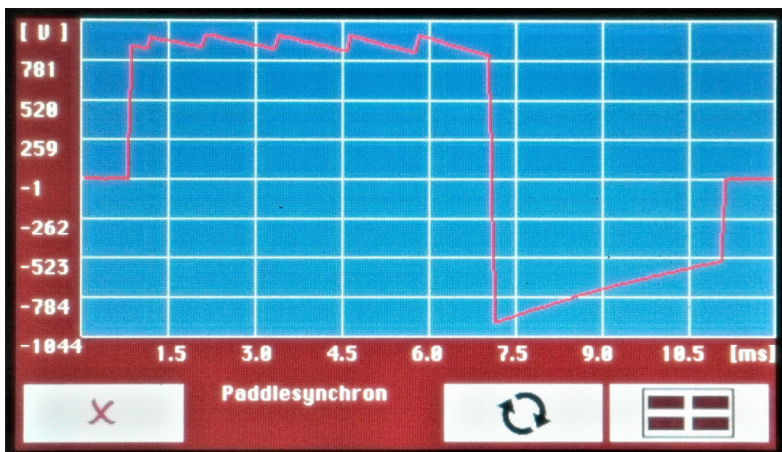
Technical Data



discharge plot of
Schiller FRED easy



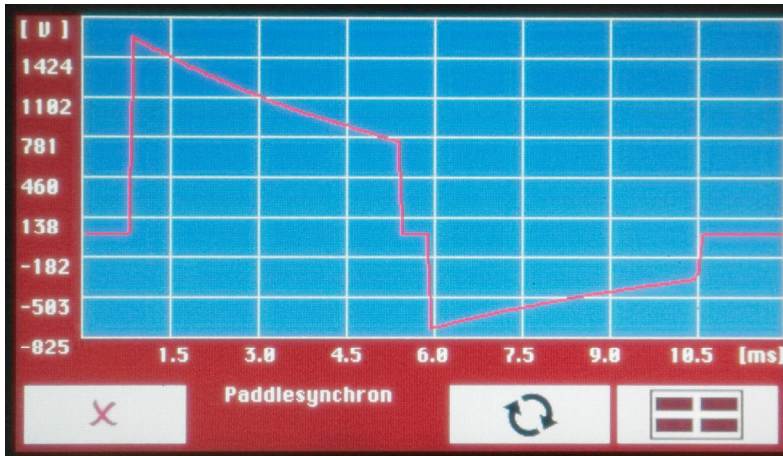
discharge plot of
PRIMEDIC HeartSave PAD



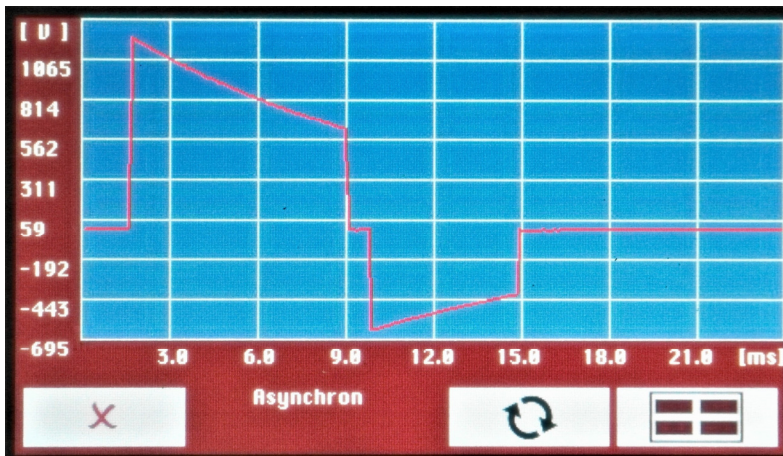
discharge plot of
ZOLL MSeries Biphasisch

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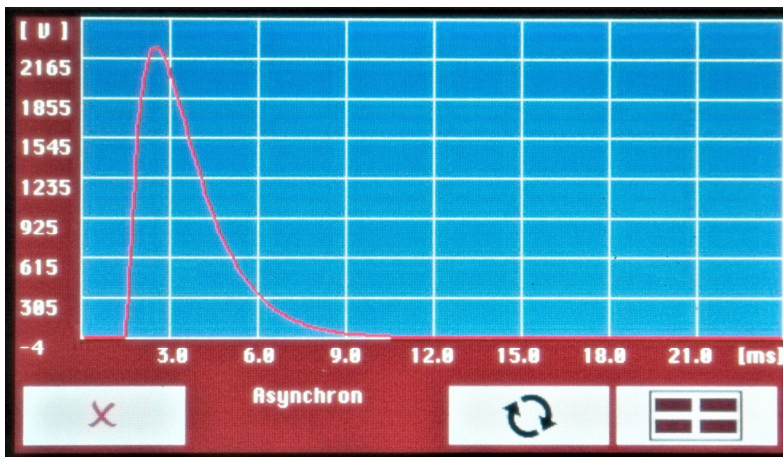
Technical Data



discharge plot of
Philips Heart Start



discharge plot of
LIFEPAK 12



discharge plot of
LIFEPAK 10

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