



## Testing system for function tests of defibrillators / external cardiac pacemakers and ECG simulation

- ☑ line- and accumulator operation
- ☑ cursor driven menu or PC control
- ☑ graphical display of the discharge plot
- ☑ measuring of pulsed biphasic is possible
- ☑ ECG output 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 or internal accumulator operation	DEFI	range	error
Nominal power:	max. 25 VA	Resistor:	50 Ohm	± 1 %
Protection class:	1	Energy	0 – 1000 Joule	± 1 Joule or ± 1 % of measurement value
Environmental temperature:	+5 - +40 °C	Pulse voltage range1:	0 - 403 V	± 1 V or ± 1 % of measurement value
Storage temperature:	-10 - +50 °C	Pulse voltage range2:	0 - 4440 V	± 1 V or ± 1 % of measurement value
Function:		Pulse width:	0 – 20 ms	± 0,1 ms or ± 2 % of measurement value
DEFI	asynchronously, synchronously, biphasic	Pulse delay time:	0 – 100 ms	± 0,1 ms or ± 2 % of measurement value
Measurement at:	50 Ohm	PACE		
Measurement range:	Range1 ± 403 V Range2 ± 4440 V 0 – 89 A 0 – 1000 J	Pulse voltage:	0,1 - 277 V	± 0,1 V or ± 5 % of measurement value
Sensitivity:	1 V	Pulse length:	0,1 – 250 ms	± 1 ms or ± 5 % of measurement value
Measuring time:	20 ms, dt 20 µs	Frequency measuring:	30 – 800 BPM	± 1 BPM or ± 1 % of measurement value
PACE	transthoracic, intracardial	Interface:	1 x RS-232 for PC-connection	
Measurement at:	50 – 1600 Ohm in 50 Ohm steps	Testing device connection:	2 Paddle sensor components with integrated 4 mm sockets for DEF1 4 sockets 4 mm for PACE 10 sockets 4 mm for ECG	
Voltage measurement:	0,1 – 277,5 V automatic measuring change - over	Digital display:	4 x 20 char display	
Frequency measurement:	30 – 800 BPM	Keyboard:	6 key foil keyboard	
AV delay time:	10 – 400 ms	Accessories:	1 x RS-232 interface cable Line cable 10 x STA8	
Demand frequency:	55 – 65 BPM	Mechanical data:	Light weight metal case IP20	
Inhibition frequency:	55 – 65 BPM	Dimensions:	235 x 130 x 310 mm (W x H x D)	
Refractory time:	50 – 400 ms	Weight:	approx. 2 kg	
Sensitivity:	0,5 – 25 mV	Selectable languages:	german, english, french, polish, spanish, italian, portuguese, turkish	
ECG	12 channel ECG			
Pulse forms:	sinus, square sinus, triangle, rectangle, trapeze, ISO, ventricular fibrillations (VF), ventricular tachykardie (VT), line frequency, QRS			

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

The defibrillator testing system can be used as stand alone device and with PC.

The DP-300 as defibrillator testing device is in use for the functional test 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 displayed graphically 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.

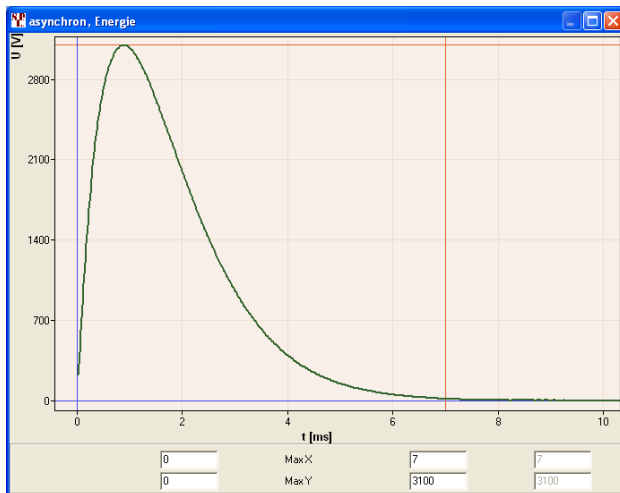
(The specified measuring accuracy refers to the measuring element. Technical modifications and errors reserved. 02/2013)

DP-300 as cardiac pacemaker testing device serves for the functional test 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.

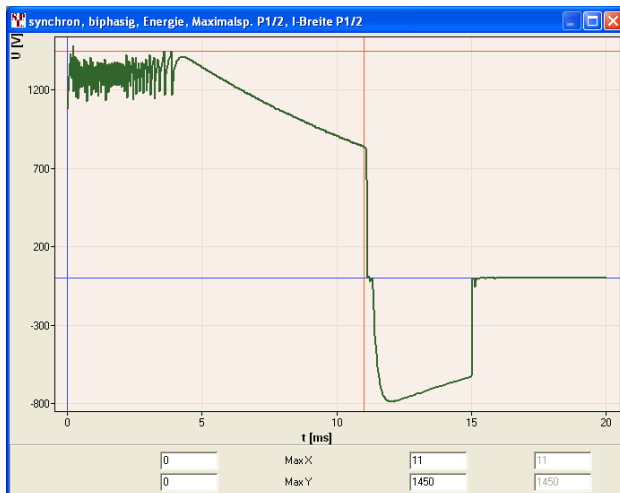
ECG stimulation serves for ECG impulse output to defibrillators and ECG. The pulse parameters are variable.

# Technical Data

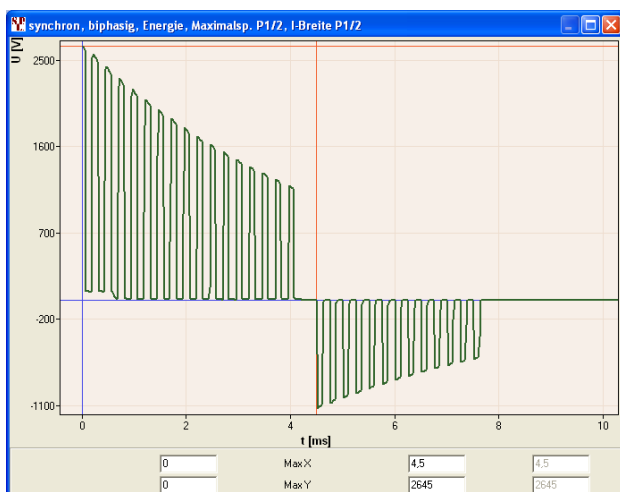
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discharge plot of  
Hellige DEFIPORT SCP 844  
at 320 J, measured with ACTIMED 3



discharge plot of  
PRIMEDIC HeartSave AED-M  
at 360 J, measured with ACTIMED 3



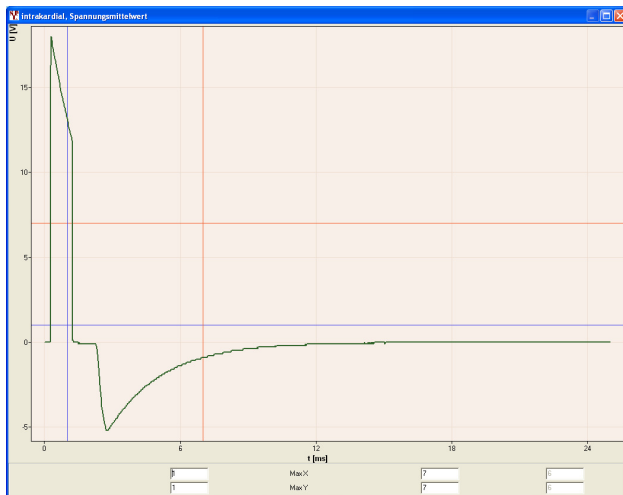
discharge plot of  
Schiller FRED easy  
at 150 J, measured with ACTIMED 3

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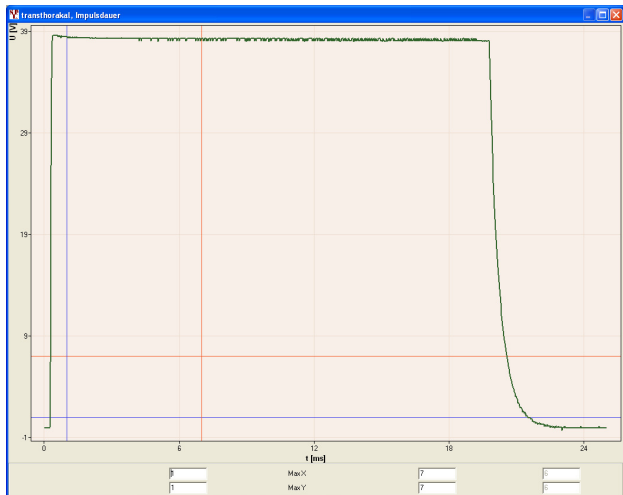
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# Technical Data

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Intracardial chart



transthoracic chart

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