



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 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		
Nominal power:	max. 25 VA		
Protection class:	1		
Environmental temperature:	+5 - +40 °C		
Storage temperature:	-10 - +50 °C		
Function:			
DEFI	asynchronously, synchronously, biphasic		
Measurement at:	50 Ohm		
Measurement range:	Range1 ± 403 V Range2 ± 4440 V 0 – 89 A 0 – 1000 J		
Sensitivity:	1 V		
Measuring time:	24/48 ms, dt 20 µs		
PACE	transthoracic, intracardial		
Measurement at:	50 – 1600 Ohm in 50 Ohm steps		
Voltage measurement:	0,1 – 277,5 V automatic measuring change - over 30 – 800 BPM		
Frequency measurement:			
AV delay time:	10 – 400 ms		
Demand frequency:	55 – 65 BPM		
Inhibition frequency:	55 – 65 BPM		
Refractory time:	50 – 400 ms		
Sensitivity:	0,5 – 25 mV		
ECG	12 channel ECG		
Pulse forms:	sinus, square sinus, triangle, rectangle, trapeze, ISO, ventricular fibrillations (VF), ventricular tachykardie (VT), line frequency, QRS		
		range	error
DEFI Resistor:		50 Ohm	± 1 %
Energy		0 – 1000 Joule	± 1 Joule or ± 1 % of measurement value
Pulse voltage range1:		0 - 403 V	± 1 V or ± 1 % of measurement value
Pulse voltage range2:		0 - 4440 V	± 1 V or ± 1 % of measurement value
Pulse width:		0 – 48 ms	± 0,1 ms or ± 2 % of measurement value
Pulse delay time:		0 – 100 ms	± 0,1 ms or ± 2 % of measurement value
PACE Pulse voltage:		0,1 - 277 V	± 0,1 V or ± 5 % of measurement value
Pulse length:		0,1 – 250 ms	± 1 ms or ± 5 % of measurement value
Frequency measuring:		30 – 800 BPM	± 1 BPM or ± 1 % of measurement value
Interface:		1 x RS-232 for PC-connection	
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	
Digital display:		4 x 20 char display	
Keyboard:		6 key foil keyboard	
Accessories:		1 x RS-232 interface cable Line cable 10 x STA8	
Mechanical data:		Light weight metal case IP20	
Dimensions:		235 x 130 x 310 mm (W x H x D)	
Weight:		approx. 2 kg	
Selectable languages:		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.

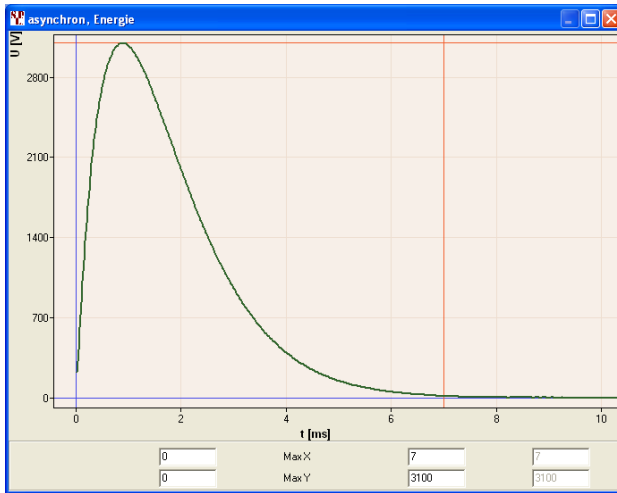
The tests can be done in the synchronous and asynchronous mode. Synchronous mode differs between paddle synchronous and monitor synchronous defibrillators.

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.

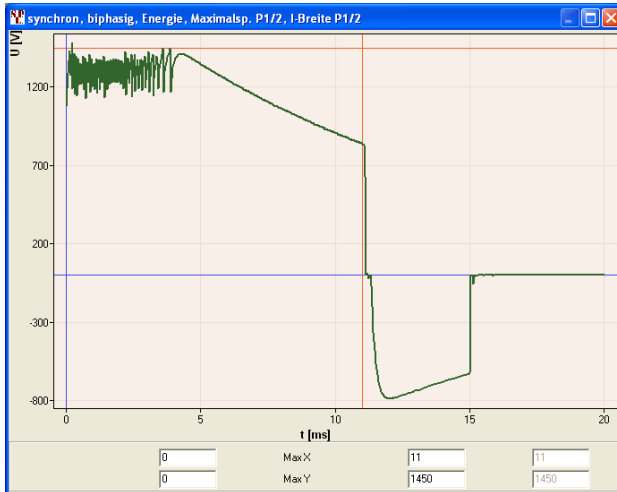
ECG stimulation serves for ECG impulse output to defibrillators and ECG. The pulse parameters are variable.

(The specified measuring accuracy refers to the measuring element. Technical modifications and errors reserved. 07/2017)

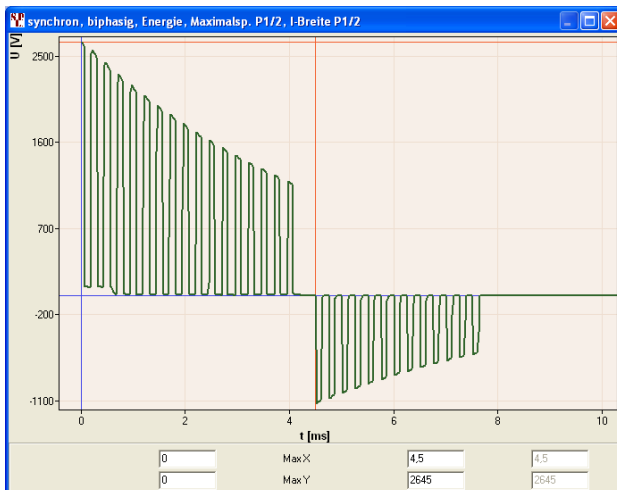
Technical Data



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



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

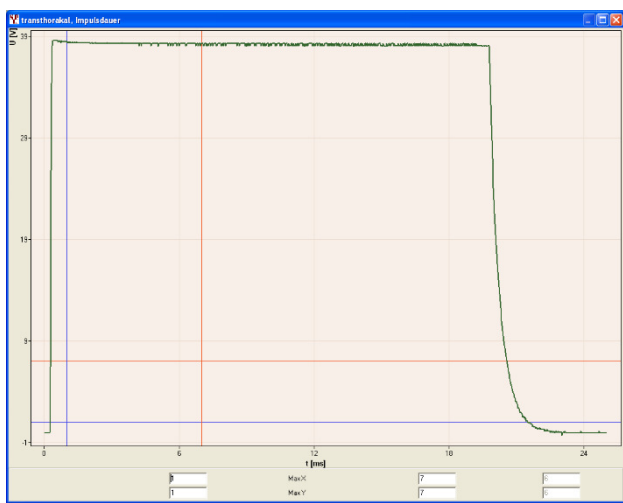
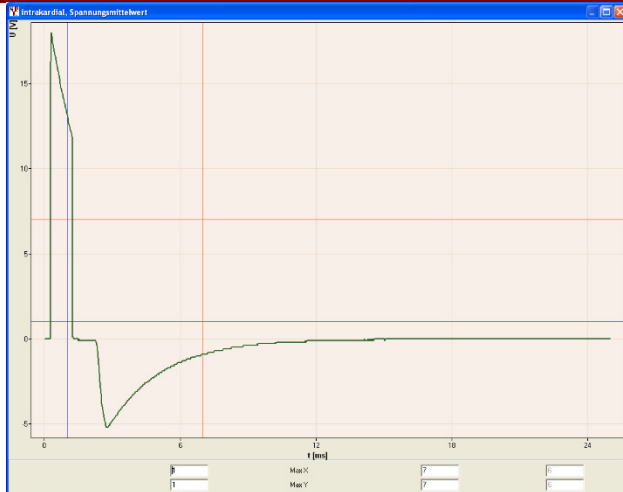


discharge plot of
Schiller FRED easy
at 150 J, measured with ACTIMED

Intracardial chart

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Technical Data



transthoracic chart

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