

## SECULIFE | DF+ Defibrillator Analyzer

3-349-762-03  
1/9.13

### SECULIFE DF+ for functional testing of Defibrillators

- With test for the refractory period, sensitivity and immunity
- Quick selection of the desired waveforms and test data
- Retrieves information about defibrillation
- Analysis for transcutaneous pacemaker
- Monophasic and Biphasic compatible
- Test for shock advisory algorithm
- Measurement outgoing energy
- Fully AED Compatible



#### Specification

SECULIFE DF+ used for functional testing of external defibrillators. The delivered energy is measured by a built-in simulated load similar to the human body (50 ohms).

Furthermore, rapid and immediate viewing and selecting of the desired waveforms and test data is possible. To determine the current pulse you can use a 12-lead ECG with arrhythmias and power waveforms. This can be recorded and viewed on the display of the defibrillator.

SECULIFE DF+ allows the user run up to 50 pre-programmed sequences of tests (Auto Sequences). The tests are configured with an easy to use PC program.

#### Measuring

This computation is implemented digitally by taking timed samples of the voltage every 100  $\mu$ sec for 100 msec (1000 readings). Each value is then squared and divided by the resistance (50 ohms). The sum of these 1000 values times 10 is then the Energy in Joules (Watt Seconds) contained in the pulse.

#### Pulse delay time generating ECG pulses

In synchronous defibrillation, the defibrillator current pulse is triggered shortly after the defibrillator detection of the R wave in the ECG. In this case, the corresponding measured value for the test is the pulse delay time, which is defined as the maximum time difference between the R-wave and the peak of the defibrillator pulse.

#### Purchase parts

- 1 Operating Instruction
- 2 Internal paddle adapters
- 2 Battery, 9 V DC / [NE 1604] Alkaline
- 2 Plastic electrode plates

# SECULIFE | DF+

## Defibrillator Analyzer

### Technical Data

Device:

Display	LCD Graphical /256 x 64 pixels /Backlight
Construction	8,6 x 24,9 x 27,2 cm/ABS Plastic
Weight	< 5 Lbs (2.3 kg)
Face Plate	Lexan/Back printed
Operating Range	15 to 40 °C
Storage Range	-20 to 65 °C
Power Supply	Battery: 9 V DC [2 required.]/[NE 1604] Alkaline Power: BE 2006 PE[220 V AC] US BE 2006 PE[220 V AC] EU [10 V, 300 mA]

Measuring:

General	
Method	Biphasic
Load resistance	50 Ohm +/- 1% non-inductive(<1 µH)
Display resolution	0.1 Joule
Measurement time window	100 ms
Absolute max peak Voltage	6000 Volts
Pulse width	100 ms

	Low Range	High Range
Voltage	< 1000 Volts	< 5000 Volts
Max current	24 Amps	120 Amps
Max energy	50 Joules	1000 Joules
Accuracy	+/-2% of reading for > 20 Joules +/-0,4 Joules for < 20 Joules	+/-2% of reading for > 100 Joules +/-2 Joules for < 100 Joules
Trigger level	20 Volts	100 Volts
Playback amplitude	1 mV/ 1000 V Lead I	1 mV/ 1000 V Lead I
Test pulse	5 Joules +/- 20%	125 Joules +/- 20%

### Ordering information

Description	Type	Order number
Defibrillator Analyzer	SECULIFE DF+	M695A

For more information on accessories, see

- [www.gossenmetrawatt.com](http://www.gossenmetrawatt.com)

Edited in Germany • Subject to change without notice • A PDF version is available on the Internet