

Advanced Clinical Defibrillator

DefiMax plus



**European quality,
worldwide recognition**

Over 20 years of experience, thousands of patient monitors and defibrillators sold in Europe, Asia, Australia, Africa and South America.

A professional clinical defibrillator with advanced patient monitoring feature.

The defibrillator enables monitoring of ECG from 3 and 5 leads ECG cable, arterial pressure measured by non-invasive (NIBP) and invasive (IBP) methods, saturation (SpO₂), temperature and end tidal carbon dioxide (CO₂).

The advanced technology used in the defibrillator delivers an energy impulse (from 1 to 300J) which is precisely adjusted to patient's physical parameters and minimizes an injury of the heart muscle.

The defibrillator can work in a manual and automatic mode (AED). It can be used for performing cardioversion and pacer in asynchronous or synchronous mode.

GENERAL PARAMETERS

Power supply	100 - 240 VAC 50/60 Hz
Internal battery	12 VDC
Safety class	I, CF, BF
Safety requirements	MDD: 93/42/EEC, 2007/47/EC; EN 60601-1, EN 60601-1-2, EN 60601-2-4
Weight	6.0 kg without paddles
Dimensions	298 x 312 x 260 mm

MODES

Manual mode
 Cardioversion mode
 AED mode
 Monitoring mode
 Pacer mode
 Service mode

DISPLAY

Display type	6.5" LCD TFT colour
Resolution	640 x 480 pixels
Digital values and waves displayed	

MONITOR MODULE

Number of channels	4
Sweep speed	3.125 to 50 mm/s
Trends	6 h
Archive	6 h
Events archive	min. 500
Alarms for all parameters	

DEFIBRILLATOR MODULE

Manual and cardioversion mode

Electrodes type	disposable and reusable adult and pediatric
Impulse type	biphasic with patient's impedance compensation
Energy range	1 to 300 J
Charging time	< 10 s for 300 J

AED mode

Electrodes type	disposable
Impulse type	biphasic with patient's impedance compensation

Advanced help system
 during defibrillation

ECG MODULE

Leads	I, II, III, aVR, aVL, aVF, Vn
CMRR ratio	> 100 dB
Frequency range:	
Diagnostic	0.05 to 100 Hz
Monitoring	0.5 to 40 Hz
Paddles	1 to 25 Hz
Sensitivity	2.5 - 20 mm/mV
HR range	15-300 bpm
QRS signaling	acoustic and optical
Input protected against defibrillator and high frequency disturbance	

RESPIRATION MODULE

Respiration rate	0 - 150 rpm
Measurement method	rheographic (impedance)
Apnea recognition time	5 - 60 s
Possibility of lead selection	
Respiration waveform displayed	

PACER MODULE (option)

Impulse shape	monophasic
Mode	on demand and fixed-rate
Output current	0 to 200 mA
Pacing rate	30 to 180 1/min
Impulse width	5 to 40 ms

SpO₂ MODULE Nellcor OxiMax™ (option)

Measurement range	0 - 100%
Accuracy 70% - 100%	2 digits
Accuracy 60% - 80%	3 digits
Pulse rate	20 - 300 bpm
Acoustic signaling of saturation	
Motion and low perfusion tolerant	
Plethysmographic wave displayed	

NIBP MODULE (option)

Measurement range of transducer	10 - 300 mm Hg
Measurement mode	manual, auto or STAT
Auto-mode repetition time	1 - 480 min

TEMPERATURE MODULE (option)

Measurement range	0 - 50.0 °C
Resolution	0.1°C

CO₂ MODULE (option)

Measurement range	0 - 150 mm Hg
Respiration rate	0 - 150 rpm
Apnea recognition time	5 - 60 s
CO ₂ waveform displayed	

IBP MODULE (option)

Measurement range	-50 to +320 mm Hg
Accuracy	± 1 mm Hg
Input sensitivity	5 µV/mm Hg
Pressure waveform displayed	

THERMAL RECORDER

Paper width	57 mm
Mode	auto and manual
Number of channels	2
Sweep speed	25 and 50 mm/s
Printout length	15 s



EMTEL, ul. A.Mickiewicza 66, 41-807 Zabrze, POLAND
 phone: +48 32 271 90 13 fax: +48 32 271 57 27
 medical@emtel.com.pl www.emtel.com.pl