ADVANCED CLINICAL DEFIBRILLATOR

emtel Defibrillators Patient Monitors

DefiMax Plus

Multifunctional and advanced biphasic defibrillator.

DefiMax Plus enables monitoring of patient's vital signs, such as: ECG, pulse oximetry (SpO_2), arterial pressure measured by non-invasive (NIBP) and invasive (IBP) methods, temperature, respiration and end tidal carbon dioxide ($etCO_2$).

The energy impulse is precisely adjusted to patient's physical parameters, thanks to the analysis of the impedance during the impulse delivery. The use of this technology allows to minimize an injury of the heart muscle, relating to the delivery of too high defibrillation energy comparing to the energy chosen by a user.

The device can perform defibrillation in a manual, synchronous (cardioversion) or automatic (AED) modes. A transcutaneous pacemaker allows work in asynchronous or synchronous modes.

EUROPEAN PRODUCT
SOLD AROUND THE WORLD

Over 25 years of experience, thousands of patient monitors and defibrillators sold in Europe, Asia, Australia, Africa and South America.

EUROPEAN QUALITY **EASY TO USE** **RELIABLE**

DefiMax Plus

CE 2274

TECHNICAL PARAMETERS

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	

THERMAL RECORDER

Paper width	57 mm
Mode	auto and manual
Number of channels	3
Sweep speed	25 and 50 mm/s

MONITOR MODULE

Number of channels	4
Sweep speed	3.125 to 50 mm/s
Trends	min. 6 h
Archive	min. 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 (option)

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; (ECG 12 option)
CMRR ratio	> 100 dB
Filters	diagnostic, monitoring, transport
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	

TEMPERATURE MODULE (option)

Measurement range	0 - 50.0 °C
Resolution	0.1 °C

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 mmHg
Measurement mode	manual, auto or STAT
Auto-mode repetition time	1 - 480 min

CO2 MODULE (option)

Measurement range	0 - 150 mmHg
Respiration rate	0 - 150 rpm
Apnea recognition time	5 - 60 s
CO2 waveform displayed	

IBP MODULE (option)

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

European Funds Smart Growth | Polska | European Union European Regional Development Fund

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