

BD:3700

BIPHASIC DEFIBRILLATOR



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

Technical specifications

Display

Display Type: 8 inches High resolution LCD display.

Sweep Speed: 25mm/sec.

Information: Heart Rate, Lead/Pads, Alarm On/Off, SpO₂, AED Functions and Prompts, Alarm Selection and Limits, Delivered Energy.

Defibrillator

Waveform: Biphasic

Charge Time: Less than 7 seconds with a new fully charged battery.

Energy Display: Monitor display indicates both selected and delivered energy.

Charge Prompt Type: Voice and visual prompts.

Electrode Impedance Measurement Range: 0

AED Mode

AED Function: Auto analyzes and charges x3 with programmable auto energy level selection, screen prompts, and voice prompts.

Shockable Rhythms: Ventricular fibrillation with amplitude $\geq 200\mu V$, Ventricular tachycardia with rates 140bpm, and QRS complex wave duration $\geq 140ms$.

Charge Control: Control on device front panel, press key on paddle.

Prompts: Voice and visual prompts.

Manual Mode

Energy Selection: Selectable at 2, 5, 7, 10, 20, 30, 50, 70, 100, 150, 200, 300, 360 Joules.

Synchronized Mode: Synchronizes defibrillator pulse to patient's R wave. "SYNC" message displayed on monitor.

ECG Monitoring

Patient Connection: 5-lead ECG cable, or 3-lead ECG cable, paddles.

Lead Selection: Displayed on monitor, paddles, I, II, III, AVR, AVL, AVF, V.

ECG Size: 0.25, 0.5, 1, 1.5, 2, 4 cm/mV display on monitor.

Heart Rate: 20-300BPM.

Heart Rate Alarm: On/Off displayed on monitor, user-selectable.

Smart Alarms: Beeper/Voice prompts indicate shockable rhythm.

SpO₂ Module

Measurement Range: 30-100%, +2% between 80%-90%, others + 5%

Alarm Range: User set high limit and low limit

Alarm Accuracy: +10% within setting values

Alarm Time Accuracy: Less than 12 sec

Recorder

Paper: 50mm thermal.

Speed: 12.5mm/sec, 25mm/sec, 50mm/sec. User-selectable 6-second delay.

Printing Method: High-resolution, thermal array print head.

Print-out Modes: Manual or automatic, user-configurable.

On/Off Control: Front panel and paddle.

Automatic Function: 9-second recording initiated by alarm activation or defibrillator charge or defibrillator discharge.

Battery

Type: Rechargeable, Ni-MH battery, 12V.

Operating Time: For a new, fully charged battery: 60 defibrillator discharges at maximum energy, or 3 hours minimum of continuous ECG monitoring.

Additional parameters will affect operating time with different functions.

Option 1

Specification	Pacer (Optional)
Type	VVI
Pulse Type	Rectangular, constant current
Pulse Amplitude	0 to 180 mA \pm 10% or 5 mA (whichever is greater)
Pacing Rate	Variable from 30ppm to 180ppm \pm 1.5% (increments or decrements by a value of 2ppm)
Multi-Function (MFE) Pads	Electrode Multipurpose defibrillator/pacing electrodes
Pause	Pacing pulse frequency reduced by a factor of 4 when activated
Refractory Period	NC (VVI demand do not have this specification)
Pulse Width	(20+1.5ms)
Output Protection	Fully defibrillator protected and isolated

Option 2

Specification	EtCO2 (Optional)
Type of sensor	By-pass
Technical principle	Non-dispersive infrared gas analysis NDIR
Storage condition	-40°C to 70°C, <90% RH, non-condensing
Operating conditions	5°C to 50°C, 10 to 90% RH, non-condensing
Ambient pressure	55-115kPa
Power supply	5V \pm 5% (max ripple 200mVp-p)
TDP	Typical value 120mA Excursion calibration typical value 280mA
Range	0-19.7% (0-150mmHg, or 0-20Kpa)
Resolution	0.1mmHg
Accuracy	0-40mmHg \pm 2mmHg 41-70mmHg \pm 5% of reading 71-100mmHg \pm 8% of reading 101-150mmHg \pm 10% of reading
Respiratory rate	2-150BPM
Respiratory measurement accuracy	rate 1% \pm 1BPM

Option 3

Specification	NIBP (Optional)
Measurement unit	mmHg/kPa
Measurement Range	Adult: 10~200mmHg/kPa Pediatric: 10~200mmHg/kPa Neonatal: 10~135mmHg/kPa
Resolution	1mmHg
Accuracy	Maximum mean error: 5mmHg Maximum standard deviation: 8mmHg
Type of sensor	By-pass
Technical principle	Non-dispersive infrared gas analysis NDIR
Storage condition	-40°C to 70°C, <90% RH, non-condensing
Operating conditions	5°C to 50°C, 10 to 90% RH, non-condensing
Ambient pressure	55-115kPa
Power supply	5V ± 5% (max ripple 200mVp-p)
TDP	Typical value 120mA Excursion calibration typical value 280mA
Range	0-19.7% (0-150mmHg, or 0-20kPa)
Resolution	0.1mmHg
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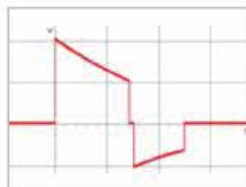
Product Feature

Battery Level Indicator



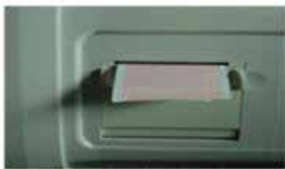
To monitor the battery real time

Biphasic Technology



With impedance compensation More effective
Less Energy and less hurt to the heart

Internal Thermal Printer



50mm integrated thermal recorder

Data Storage



65 hours of all measured parameters

Paddle:



Charging and shocking can be easily operated through according buttons



Quickly converted from adult to pediatric by removing the outer surface

HPLC Servicing, Validation, Trainings and Preventive Maintenance :

HPLC Servicing :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

Trainings :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

AMC's/CMC :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-shooting.

Validations :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

Instruments :Instruments :We offer instruments/Renting Services Modules like pumps,detector etc. on Rent.



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Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the global. Analytical Technologies Limited is an ISO:9001 Certified Company engaged in Designing, Manufacturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

Our Products & Technologies



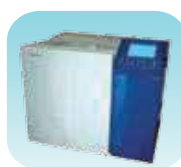
UV/VIS Spectro 2080+ Double Beam



Infra FTIR



Optima Gas Chromatograph 3007



Optima Gas Chromatograph 2979 Plus



Flash Chromatograph



Atomic Absorption Spectrophotometer



Liquid Partical Counter



Optical Emission Spectrophotometer



DSC/TGA



Semi Auto Bio Chemistry Analyzer



HEMA 2062 Hematology Analyzer



Micro Plate Reader/Washer



URINOVA 2800 Urine Analyzer



Total Organic Carbon 3800



Fully Automated CLIA



NOVA-2100 Chemistry Analyzer



PCR/Gradient PCR/ RTPCR



TOC Analyzer



Laser Particle Size Analyzer



Ion Chromatograph



Water purification system

Regulatory compliances



Corporate Social Responsibility

Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



Analytical
Foundation

1. Research & Innovation Scientist's awards/QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at Info@analyticalfoundation.org

2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

Reach us @



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