

# The Responder

“Progress Saves Lives...”

Edition 67 | May 2024

## From the Editor's Desk

Greetings friends, clients and fellow healthcare professionals, welcome to the May edition of The Responder.

The last week has seen quite a weather change in Cape Town. I think Winter is on its way. Add in the crazy wind and rain we recently got battered with in Cape Town, and it seems like we are going to have a very wet Winter. Personally, I love rain, especially when one is reminded of the terrible drought we survived a number of years ago. I would hate to have to go through that again, so bring on the rain. Probably a good time to get the jackets and jerseys out of the storage cupboard me thinks.



We recently had the great pleasure of exhibiting at the annual workshop of the South African Society of Occupational Health Nurses. The event covered interesting topics such as CPR, burns, triage, snake bites and diabetic emergencies. The workshop was well attended and it gave us the opportunity to engage with a large number of nursing professionals on the range of products we do. It is always enjoyable seeing the interest in our products. An event well worth attending.

Just a reminder that if you haven't visited our online store at [www.be-safe.co.za](http://www.be-safe.co.za) you are missing out. It is a convenient way to access hundreds of our products and to purchase them in just a few clicks. All specials displayed in The Responder are loaded onto our online store each month, so you never have to miss out. Paying for your order is also extremely easy, with either secure online credit/debit card payments or if you



prefer, via EFT. In addition, you can either select delivery via our pre-approved courier service or if you prefer, you can opt to collect your order from one of our branches. It is as easy as that, and well worth a visit.

In this edition we will be doing a short review of the DM7000 Cardiac Monitor Defibrillator. Should you be looking to upgrade or add a new defibrillator to your equipment list, this really is a cost-effective and very reliable option. We have had one client regularly use the DM7000 unit while on work tours to Antarctica. One certainly cannot get a much more extreme environment than Antarctica. If the DM7000 can cope with this, it will cope in any service in SA.

As always, we have some great specials lined up for you, so you will definitely want to check them out for some great savings. Due to popular demand, we have decided to continue running the specials on our CritiPack® range of procedure packs. If you missed out in April, you have a chance to benefit from these great specials during May.

With that said, we hope you enjoy this edition of The Responder.

Yours in Healthcare

*Gravin Sutton*

Editor – The Responder

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## Product Review

### The DM7000 Cardiac Monitor Defibrillator

Having access to a reliable cardiac monitor defibrillator is crucial to any resuscitation effort. A defibrillator should be compact and portable and have reliable battery life. It should be able to monitor at least 3 leads and having additional monitoring capabilities for NIBP and SpO2 are a definite advantage for post-resuscitation care.

For advanced life support care, having access to an external pacing module is extremely useful when caring for patients with symptomatic heart blocks. The defibrillator should also be able to deliver synchronised cardioversion for tachyarrhythmias.

The DM7000 cardiac monitor defibrillator distributed by Be Safe Paramedical offers excellent features in a compact and low-mass design. It is available in Basic and Advanced versions which is designed to meet the needs of both the basic and advanced level care provider.

The DM7000 Basic offers synchronised and asynchronous manual defibrillation, AED mode, 3 or 5-lead ECG monitoring, integrated adult/paediatric paddles and a 50mm thermal printer. The DM7000 Advanced offers the same features as the Basic version, with the inclusion of Non-invasive Blood Pressure monitoring, Pulse Oximetry and transcutaneous pacing. When compared to competitor products, you will find both versions to be extremely price friendly, which is extremely important in the challenging economic climate we find healthcare facilities having to operate in.



Let's take a closer look at detailed specifications for the DM7000.

#### Specifications:

##### 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.
- Impedance Range: 0-250 ohms.

##### ECG Monitoring:

- Patient Connection: 3-lead ECG cable, or 5-lead ECG cable, paddles.
- Lead Selection: Displayed on monitor, paddles, I, II, III, AVR, AVL, AVF, V

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- ECG Size: 0.25, 0.5, 1, 1.5, 2, 4 cm/mV displayed on monitor.
- Heart Rate: 20-300BPM.
- Heart Rate Alarm: On/Off displayed on monitor, user-selectable.
- Smart Alarms: Beeper/voice prompts indicate shockable rhythm.

## Battery:

- Type: Rechargeable, Ni-MH battery, 12V.
- Operating Time: For a new, fully charged battery: 100 defibrillator discharges, or 3 hours minimum of continuous ECG monitoring. Additional parameters will affect operating time with different functions.

## Display:

- Screen Type: High-resolution display
- Screen Size: 7 inch (17.7 cm) diagonally
- Sweep Speed: 25mm/sec
- Information: Heart Rate, Lead/Pads, Alarm On/Off, SpO<sub>2</sub>, NiBP, AED Functions and Prompts, Alarm Selection and Limits, Delivered Energy.



## SpO<sub>2</sub> Module:

- Measurement Range: 30~100%,  $\pm 2\%$  between 80%~90%, others  $\pm 5\%$
- Alarm Range: User set high limit and low limit.
- Alarm Accuracy:  $\pm 10\%$  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 print head
- Print-out Modes: Manual or automatic, user-configurable.
- On/Off Control: Front panel and paddle.
- Automatic Function: 9-seconds recording initiated by alarm activation or defibrillator charge or defibrillator discharge.

## AED Mode:

- AED Function: Auto analyse and charge 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  $\geq 140\text{bpm}$ , and QRS complex wave duration  $\geq 140\text{ms}$
- 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



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## **NIBP Module:**

- Measurement unit: mmHg/kPa
- Measurement Range:
- Adult: 10~200mmHg/kPa
- Paediatric: 10~200mmHg/kPa
- Neonatal: 10~135mmHg/kPa
- Resolution: 1mmHg
- Accuracy: Maximum mean error: 5mmHg
- Maximum standard deviation: 8mmHg

## **Transcutaneous Pacing Module:**

- Type: VVI demand; asynchronous (fixed rate) when in ASYNC pacing mode
- Pulse Type: Rectangular, constant current
- Pulse Amplitude: 0 to 180 mA  $\pm$  10% or 5 mA (whichever is greater).
- Pacing Rate: Variable from 30 ppm to 180 ppm  $\pm$  1.5% (increments or decrements by a value of 2ppm)
- Multi-Function Electrode (WFE) Pads Multipurpose Defibrillation/Pacing Electrodes
- Output Protection: Fully defibrillator protected and isolated

## **Dimensions:**

- 33 x 31.8 x 13.5cm
- 4.95kg

That's the DM7000 in a nutshell. Should you be interested in finding out more about this fantastic little unit or would like a quotation, please feel free to drop us a mail at [info@be-safe.co.za](mailto:info@be-safe.co.za)

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## Specials

### Simple Face Mask

Product Code: O2MRA.T



R14.30 Inclusive of Vat each

Offer valid until 31 May 2024 or while stocks last

[Buy Now](#)

### Criticare® DrugPAC Drug Bag

Product Code: REF:BAG.DRUGPAC.CC



R1 121.25 Inclusive of Vat each

Offer valid until 31 May 2024 or while stocks last

[Buy Now](#)

### Criticare® RescuPAC EMS Jump Bag

Product Code: REF:BAG.RESCUPAC.CC



R1 270.00 Inclusive of Vat each

Offer valid until 31 May 2024 or while stocks last

[Buy Now](#)

### CritiPack® Needle Chest Decompression Kit

Product Code: REF:CRITI.P.CDK



R282.10 Inclusive of Vat each

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## BP Palm Aneroid Multi – 5 Cuff Set

Product Code: BPM.P.M5C.WB



R385.30 Inclusive of Vat each

Offer valid until 31 May 2024 or while stocks last

[Buy Now](#)

## CritiCare® AmpPAC Micro Drug Bag

Product Code: REF:BAG.AMP.M.D



R207.00 Inclusive of Vat each

Offer valid until 31 May 2024 or while stocks last

[Buy Now](#)

## CritiCare® IntuPAC Intubation Bag

Product Code: REF:BAG.INTUPAC.+colour



R230.00 Inclusive of Vat each

Offer valid until 31 May 2024 or while stocks last

[Buy Now](#)

## Criticare® MedsPAC Drug Bag

Product Code: REF:BAG.MEDSPAC.O



R845.00 Inclusive of Vat each

Offer valid until 31 May 2024 or while stocks last

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## CritiPack® Nasogastric Tube Pack

Product Code: REF:CRITI.P.NASO



R70.00 Inclusive of Vat each

Offer valid until 31 May 2024 or while stocks last

[Buy Now](#)

## CritiPack® Surgical Cricothyroidotomy Kit

Product Code: REF:CRITI.P.SC



R250.00 Inclusive of Vat each

Offer valid until 31 May 2024 or while stocks last

[Buy Now](#)

## CritiPack® Intraosseous Vascular Access Kit

Product Code: REF:CRITI.P.IVA



R387.50 Inclusive of Vat each

Offer valid until 31 May 2024 or while stocks last

[Buy Now](#)

## CritiPack® Bougie-aided Surgical Cricothyroidotomy Kit

Product Code: REF:CRITI.P.BSC



R195.90 Inclusive of Vat each

Offer valid until 31 May 2024 or while stocks last

[Buy Now](#)