VIAMED

V1000 Foetal Heart Simulator

Operating Instructions

CE

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Introduction

The V1000 Foetal Heart Simulator allows the operation of foetal heart monitors to be verified and the accuracy of displayed foetal heart rate assessed.

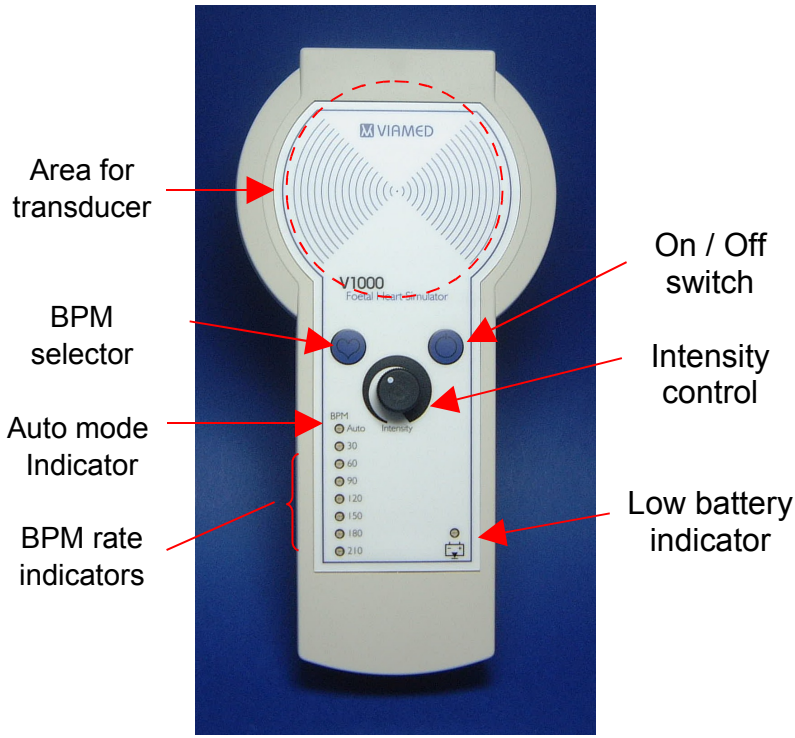
It is a hand held, portable unit for use in any environment where foetal heart monitors need to be tested: before use, when suspected faulty or after routine servicing.

The V1000 simulates heart rates in the range of 30 BPM to 210 BPM.

Altering the intensity control on the front panel alters the amplitude, allowing the sensitivity of the transducer and monitor combination to be assessed.

The V1000 can simulate continuously in excess of 2 weeks at maximum intensity, using 4x 1.5V AA/MN1500/LR6 alkaline batteries.

Controls and Indicators



Operating the V1000

The V1000 can simulate at fixed heart rates between 30 BPM and 210 BPM at 30 BPM intervals. It can also run an automatic test routine of 30 seconds at 30 BPM followed by the same duration at 60, 90, 120, 150, 180 & 210 BPM. This test routine is continuous until auto test is deselected or the simulator is switched off.

1. Place ultrasound gel on the centre of the transducer placement markings on the front panel of the V1000.

2. Obtain a good contact between the transducer and the V1000, with the transducer remaining central, using the concentric markings as a guide.

3. Press the On/Off button and ensure that each of the LED indicators illuminates during the self-test routine.

4. When the self-test routine is complete, the 120 BPM indicator begins to flash. If the low battery indicator is illuminated, replace the batteries.

5. Adjust the intensity control until the ultrasound monitor under test begins to respond, then set the intensity control as necessary.

6. Pressing the BPM selector button adjusts the output rate of the V1000, pressing the button whilst at 210 BPM sets the V1000 into the automatic test routine.

7. To switch off the V1000, press the On/Off button. Ensure that all rate indicators extinguish, detach the ultrasound transducer and remove any residual gel using a damp cloth.

Low Battery Indication

When the V1000 detects that the batteries are nearing depletion, the low battery indicator will begin to flash. The V1000 can still be used, but the user should consider that simulation may cease at any time without further warning.

When the battery voltage reduces to a level where the performance of the V1000 may be compromised, simulation will cease and the low battery indicator will remain illuminated. When the low battery indicator is constantly illuminated, the batteries must be replaced.

Replacing the Batteries

The V1000 operates using 4x 1.5V AA/MN1500/LR6 alkaline batteries.

To replace the batteries, remove the battery door on the rear panel, remove the existing batteries and insert new ones, observing the polarity indications inside the battery compartment.

Dispose of batteries in accordance with local regulations.

Caution: only use batteries of the type specified.

Cleaning

With reference to the Medical Devices Agency document "Sterilization, disinfection and cleaning of medical equipment: guidance on decontamination from the Microbiology Advisory Committee to Department of Health Medical Devices Agency" (known as the MAC Manual), "Introduction to Part 1 - Table 1: Classification of infection risk associated with the decontamination of medical devices"; the V1000 Foetal Heart Simulator is classified as low risk, due to being "In contact with healthy skin, or not in contact with the patient".

The recommended decontamination method for low risk items is to clean in accordance with the guidelines in the MAC Manual "Part 2; Cleaning (manual) - non-immersion".

Protection Rating

The V1000 is intended to be splash proof (IP41).

Warranty

1 year from date of invoice.

Note: warranty is void if the warranty seal is not intact, or has been removed.