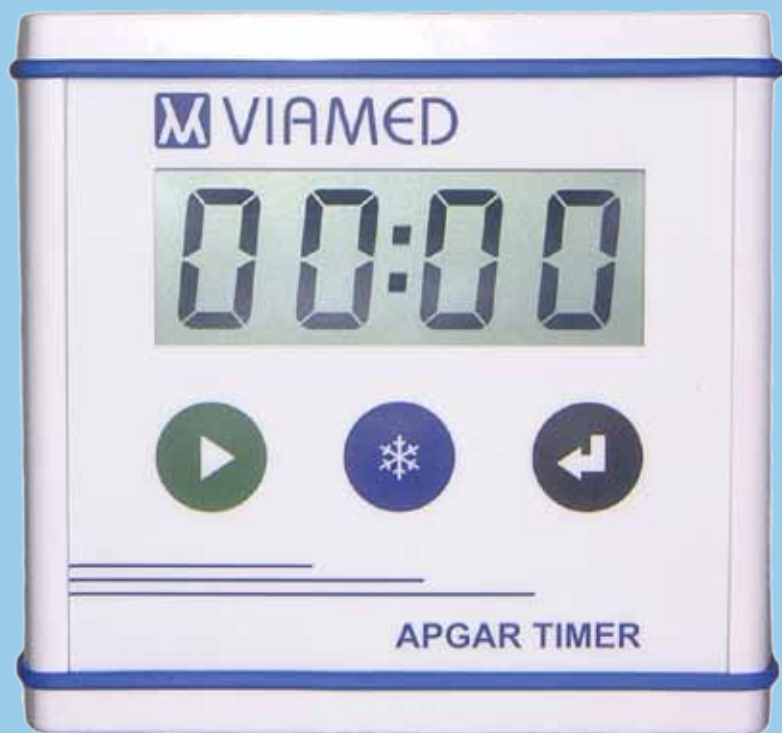


Operator's Manual

Digital Apgar Timer



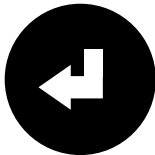


Description

The Viamed Apgar Timer is a battery powered digital timer with preset audible timing indications at 1, 5 and 10-minute intervals.

The timer has a large, clear LCD display and is operated using the keys on the front of the instrument.

The Function of the Keys

Key	Function
	<ul style="list-style-type: none"> Starts counting from 00:00 Returns to <i>Counting Mode</i> whilst in <i>Freeze Mode</i>.
	<ul style="list-style-type: none"> Enters and exits <i>Freeze Mode</i>. Display 'freezes' whilst the actual elapsed time continues counting, but is not displayed. Exiting <i>Freeze Mode</i> returns to <i>Counting Mode</i>, resuming from the ongoing total elapsed time.
	<ul style="list-style-type: none"> Resets counter, return to <i>Standby Mode</i>.

Standby Mode

The Apgar Timer does not have an ON/OFF switch. When not counting, the Apgar Timer enters *Standby Mode*.

In *Standby Mode* the display is blank with the exception of a flashing colon (:) to indicate that the timer is functioning correctly.

If the display is completely blank with no flashing colon, the timer may require battery replacement. Replace batteries on an annual basis.

Counting Mode

To enter *Counting Mode*, press the START button.



When the Apgar Timer begins counting, the display counts upwards from 00:00 in 1-second intervals up to a maximum of 1 hour (59:59 on display), it will then enter *Standby Mode* automatically.

Whilst counting, the timer will indicate the Apgar scoring intervals with audible beeps:

1 minute:	1 beep
5 minutes:	2 beeps
10 minutes:	3 beeps

Freeze Mode

It is possible to freeze the display whilst the actual time continues to count in the background; this is to allow for recording the time from the start of the counting cycle of a particular event.

To enter *Freeze Mode*, press the FREEZE button.



Whilst the display is frozen, the colon (:) continues to flash.

Freeze Mode can be exited and *Counting Mode* resumed by pressing the START or FREEZE button.

Upon unfreezing, the Apgar timer will continue counting, resuming from the ongoing total elapsed time.

Should an Apgar scoring interval be reached whilst the Apgar timer is in *Freeze Mode*, the timer will beep as it would in *Counting Mode* to indicate that interval, but will remain in *Freeze Mode* until exited by the user.

Reset Function

The *Reset Function* allows the timer to be reset and placed back into *Standby Mode*.

Press the RESET button to reset the timer.



Specification

Dimensions (excluding bracket)	142 mm (W) x 130 mm (H) x 40 mm (D)
Weight	551g
Display	4 digit LCD display. Digit height: 25 mm.
Power requirements	4 x AA/LR6/MN1500 1.5 V Alkaline Batteries
Controls	Start, Freeze/Unfreeze, Reset
Audio indications	1, 5, 10 minutes

Battery Replacement

For optimal performance, batteries should be replaced on an annual basis.

If the Apgar timer is to be removed from service or stored, the batteries must be removed.

The LCD flashing between the messages “Lo” and “Batt” indicates a low battery condition, when this message appears, the batteries should be replaced at the earliest opportunity.

To replace the batteries, remove the mounting bracket from the rear of the timer using a 3/16th inch Allen Key, then using a narrow blade screwdriver release the battery cover. Remove the existing batteries and insert new ones (4 x AA/LR6/MN1500 1.5V Alkaline), observing the correct polarity.

Depleted batteries should be disposed of as per local regulations.

Routine Maintenance

It is recommended that the Apgar timer be checked at least annually to ensure correct performance.

Perform service checks as detailed on the Service Sheet overleaf. There are no user serviceable parts inside: if the device does not meet the specification please return it to Viamed for repair.

Digital Apgar Timer Service Sheet

Hospital/Organisation:		
Location (department, room no.):		
Engineer (print):		
Service Date:		
Action	Further action required	OK
Serial Number:		
Batteries replaced Comments:	<input type="checkbox"/>	<input type="checkbox"/>
Check for overall signs of damage Comments:	<input type="checkbox"/>	<input type="checkbox"/>
Check START button enters <i>Counting Mode</i> Comments:	<input type="checkbox"/>	<input type="checkbox"/>
Check FREEZE button enters <i>Freeze Mode</i> Comments:	<input type="checkbox"/>	<input type="checkbox"/>
Check FREEZE button resumes <i>Counting Mode</i> Comments:	<input type="checkbox"/>	<input type="checkbox"/>
Re-enter Freeze Mode, check START button resumes <i>Counting Mode</i> Comments:	<input type="checkbox"/>	<input type="checkbox"/>
Check RESET button enters <i>Stand-by Mode</i> Comments:	<input type="checkbox"/>	<input type="checkbox"/>
Start a stopwatch whilst simultaneously pressing START		
Check single beep audible indication at 1 minute Comments:	<input type="checkbox"/>	<input type="checkbox"/>
Check two beeps audible indication at 5 minutes Comments:	<input type="checkbox"/>	<input type="checkbox"/>
Check three beeps audible indication at 10 minutes Comments:	<input type="checkbox"/>	<input type="checkbox"/>
Check count is synchronized with the stopwatch at 10 minutes, ± 1 sec Comments:	<input type="checkbox"/>	<input type="checkbox"/>
Check mounting clamp and bracket are securely fastened Comments:	<input type="checkbox"/>	<input type="checkbox"/>
Clean unit as detailed in the Operator's Manual Comments:	<input type="checkbox"/>	<input type="checkbox"/>
Additional notes or comments:		

Optional Accessories

Part Number	Description
0320200	Medirail Mounting Bracket
0121199	Swivel Mount
0121200	Universal Mounting Clamp

Cleaning and Decontamination

For routine cleaning, the Apgar timer can be cleaned with isopropyl alcohol, or with a mild detergent solution in accordance with the detergent manufacturer's recommendations.

For decontamination, clean in accordance with the guidelines in the MAC Manual "Part 2; Cleaning (manual) - non-immersion".

Warranty

Viamed warranty ensures that goods are free from defects of manufacture for a period of one year from the date of shipment from Viamed.

Liability shall be limited solely to the replacement and repair of the goods and shall not include shipping costs or other incidental costs.

The warranty does not cover damage caused by misuse, neglect, accidental damage, or by repairs other than those performed by Viamed or an authorized service centre.



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