

OPERATING MODES

SKIN MODE:

In Skin mode heater power is controlled with reference to Skin probe. In case when the temperature exceeds Max (38 °C or 101 °F) in any probe Heater is turned off.

AIR MODE:

In Air mode heater power is controlled with reference to Air probe. In case when the temperature exceeds Max (38 °C or 101 °F) in any probe Heater is turned off.

MANUAL MODE:

In manual mode user can control heater manually. In this mode user can adjust heating speed (0 to 8 speed) and set timer upto 59min. With probes installed when the temperature exceeds Max (38 °C or 101 °F) in any probe Heater is turned off. Special attention is needed while operating without probes.

DISPLAY INDICATION

LCD:

LCD displays the following information.

- I. Current Mode
- II. Heating speed
- III. Alerts: Low Temp, High Temp, Probe fail
- IV. Settings: Set Temp, Low Alarm, High Alarm, Manual mode timer, Calibration, Product branding
- V. APGAR timer

ALERTS

- Power fail: Power fail indicator turns ON with sound alert (cannot be muted).
Probe fail: Probe fail indicator turns ON with sound alert (can be muted). Displays "--.--" on temp display.
Heater overload: Heater overload indicator turns ON.
Low temperature: Low alarm indicator turns ON with sound alert (can be muted). Displays blinks.
High temperature: High alarm indicator turns ON with sound alert (can be muted). Displays blinks.
Manual mode Time out: Short sound alert and timer flashing on LCD.

IMPORTANT INSTRUCTIONS

We recommend that you read the following instruction carefully, before using the machine/Equipment

- Supply voltage should be between 220V-240V 50Hz.
Do not use the machine/Equipment when the mains cord, the plug or other components are damaged.
The machine/Equipment should be handled by authorized person only.
Do not clean machine/Equipment with water or other cleaning liquid.
Check heater and probe before using the machine.
Do not leave baby unattended for long intervals.
We recommend to use 650W heater.
New probes or replacement probe should be calibrated before use.



How to use

Machine can operate in 3 different modes skin, air and manual mode. By pressing 'MODE' switch user can change mode.

Skin Mode

In this mode machine controls heater speed to maintain skin temperature around set temperature automatically. User can set skin temperature by pressing 'SET' switch, it will display current set skin temperature on LCD.

Using 'UP' and 'DOWN' switch to adjust set temp. Press 'ENTER' switch to confirm.

Next it will ask for low temp alarm, if temp reaches below set low temp then low temperature alert will trigger.

Next it will ask for high temp alarm, if temp exceeded set high temp then high temperature alert will trigger. User can mute sound alerts by pressing 'MUTE' switch

Note: In this mode Machine will only start heater when probes are connected.

Air Mode

In this mode machine controls heater speed to maintain air temperature around set temperature automatically.

User can set air temperature by pressing 'SET' switch, it will display current set air temperature on LCD.

Using 'UP' and 'DOWN' switch to adjust set temp. Press 'ENTER' switch to confirm.

Next it will ask for low temp alarm, if temp reaches below set low temp then low temperature alert will trigger.

Next it will ask for high temp alarm, if temp exceeded set high temp then high temperature alert will trigger. User can mute sound alerts by pressing 'MUTE' switch.

Note: In this mode Machine will only start heater when probes are connected.

Manual Mode

In this mode user can control heating speed of heater manually.

When user enters in manual mode a timer starts decrementing. After timer reaches 0 min machine turns OFF the heater and notifies with short sound alert.

User can adjust heating speed by 'UP' and 'DOWN' switches. Heating speed is indicated by heater indicator.

User can change time by pressing 'SET' switch, it will display current set time on LCD. Using 'UP' and 'DOWN' switch time can be adjusted between 1 min to 59 min.

Press 'ENTER' switch to confirm.

This mode can work without temperature probes.

Warning: Special attention is needed while operating without probes.

Note: In this mode if probes are connected, machine will automatically turn OFF heater after temp exceeds max temp (38 °C or 101 °F)

Calibrate probes

To calibrate probe press and hold 'UP' and 'DOWN' switches until calib password is displayed on LCD. Enter 4 digit Password for verification which can be entered with help of 'UP', 'DOWN' & 'ENTER' switches.

(Password is provided by manufacturer)

After password successfully confirmed, with 'UP' & 'DOWN' switches user can set actual skin and air temperature by comparing with external temperature meter. Press 'ENTER' to confirm.

Note: Calibrate only works when probe is connected to machine and temperature is displayed on 7 segment display.

Change Temp unit (°C to °F)

- Turn OFF the machine.
- Turn ON the machine while holding 'Enter' and 'MODE' switches.
- Keep holding both switches until °F indicator is turned ON.

Note: Repeat above process to convert back temperature unit to °C.



Neonatal Pulse Oximeter/optional:

Display : 2" colour TFT

SpO2 measurement range	35%~100%		
SpO2 measurement Accuracy	±2% (70%~100%)		
SpO2 resolution	1%		
PR measurement range	30~250bpm		
PR measurement Accuracy	The greater of ±2bpm		
PR resolution	1%		
Low perfusion performance	0.025% Oximeter accuracy of ±2% and pulse rate accuracy of ±2bpm under 0.025% weak perfusion conditions		
Anti-motion interference performance	SpO2 measurement accuracy ±3% and pulse rate measurement accuracy ±4bpm at 0-4Hz, 0-3cm random motion or fixed frequency motion		
Breathing measurement	Optional		
Initial output time	4s		
Probe off detection	Yes		
Probe failure detection	Yes		
perfusion Index	0.02%~20%		
Pulse wave	Yes		
Board size	32mm*18mm*3mm		
Wiring methods	Pad		
Power supply	5V DC		
Power consumption	<15mA		
Application	Adult / Pediatric / Neonatal		
Work environment	temperature: 0~40℃, humidity: 15%~95%	atmospheric	pressure:
Storage environment	temperature: -20~60℃, humidity: 15%~95%		Non-condensing
	, atmospheric pressure: 79.5kPa~107.4kPa		