

**HARTMANN**



# Veroval<sup>®</sup>

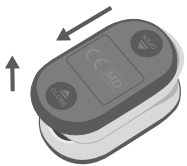
## Pulse oximeter



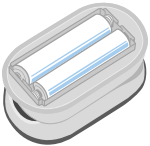
### Quick start guide

#### Commissioning

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To open the battery compartment slide the "OPEN" symbol at the edge of the cover in the direction indicated by the arrow.



Insert both batteries according to the specified polarity. Only use batteries of type: 2 x 1.5 V AAA batteries (LR03).



To close the battery compartment, place the cover back on top and slide it in the direction indicated by the arrow on the "CLOSE" symbol.

#### Taking a measurement

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Press down on the front edge of the device to open it. Insert your finger with your fingernail facing upwards. Make sure that your fingertip is completely inserted.



Close the device and press the ON button to start the measurement. Keep your finger still during the measurement.

# Settings

## Settings menu

- Press the ON button briefly to turn on the device.
- Press the ON button and hold it (approx. 1 sec.) to enter the settings menu. There are two setup sections (written in yellow) where changes can be made: **Remind Setup** and **Limit Setup**.



Press briefly

→ Next setting

Press and hold (approx. 1 sec.)

→ Change value

- A small asterisk icon (\*) guides you through the settings. Whenever the asterisk appears next to a setting, this setting is selected and can be changed.
- To change a value in the selected setting, press and hold down the ON button.
- To move to the next setting, press the ON button briefly.
- To exit the settings menu, you need to navigate the asterisk icon all the way down to "Exit" by pressing the ON button briefly. Then press and hold the ON button. Alternatively, the device exits the settings menu automatically after inactivity (automatic switch-off after 10 sec.).

## Remind Setup



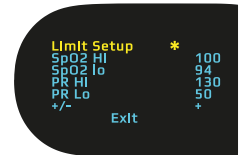
- **Sound Reminder:** if this is set to "on", a beep sounds as soon as a "Hi" limit is reached or exceeded, or as soon as a "Lo" limit is reached or fallen below. The value that triggered the beep flashes on the display.
- **Beep:** if this is set to "on", a beep sounds with every heartbeat (pulse).
- **Demo:** if this is set to "on", a regular beep can be heard while you are in the settings menu. It is intended to simulate a pulse and (without taking a measurement) demonstrate what the beep sounds like. This allows you, for example, to get a sense of the device's volume. This setting is usually switched back to "off" manually by the user after a brief test. In case both sounds (Sound Reminder and Beep) are set to "on" you can hear them at the same time.
- **Restore:** press and hold the ON button (approx. 1 sec.) to reset the device to its factory settings. Once this has been done, the word "OK" will appear and remain until the next settings change. This can be done as often as required.

Default settings after restore:

SpO <sub>2</sub> Hi	100
SpO <sub>2</sub> Lo	94
PR Hi	130
PR Lo	50

- **Brightness:** you can adjust the display brightness, with 1 being the darkest and 5 the brightest.

## Limit Setup



**Alarm limits** can be set **individually** on the Veroyal® Pulse oximeter.

• Beep signals examples:

SpO<sub>2</sub> Hi: 98 → beeps **at 98% and above**  
SpO<sub>2</sub> Lo: 94 → beeps **at 94% and below**

PR Hi: 130 → beeps **at 130 bpm and above**  
PR Lo: 50 → beeps **at 50 bpm and below**

• **+/-** : you can select + or - to choose whether pressing the ON button will increase (+) or decrease (-) the values. For PR, this is done in steps of 5.

## Reference values for SpO<sub>2</sub>

SpO <sub>2</sub> measurement range	Classification / Recommendation
95 % – 100 %	<b>Normal Oxygen Level:</b> Indicates sufficient oxygen levels in the blood.
90 % – 94 %	<b>Low Oxygen Level:</b> Keep an eye on your symptoms. A consultation with a physician is recommended.
< 90 %	<b>Critical Oxygen Level:</b> A consultation with a physician is strongly recommended.