



Part no.	311-8250200-XXX
Product name	機器說明書/GRx Diagnostics/英文(DiME)
Spec	L172*W300 mm/6折/65P雜誌紙/雙面/黑
Designer	JF
Color	 K100  K30



Operation Instructions

⚠ WARNINGS

- Do not use the oximeter in an MRI or CT environment.
- The oximeter is not intended for use in the diagnosis or screening of any symptoms or diseases. The data measured is for reference only;

do not base a definitive diagnosis on the results of a single test. A physician or healthcare provider should make a diagnosis after all other clinical and laboratory findings are evaluated.

- If subjects' monitoring sites have trauma, disability or another medical status that risks inaccurate results, operators should consult a doctor before use.
- The oximeter has to measure the pulse properly to obtain accurate SpO2 measurement. Blood flow restrictors (e.g. blood pressure cuffs) may hinder pulse measurements. Remove any objects that may hinder performance of the oximeter.
- Keep the batteries out of reach of small, unsupervised children; they are a choking hazard if swallowed.
- The device is only applied for use in an indoor environment.
- The device should not be worn for a long period.

⚠ CAUTIONS

- The oximeter is not an apnea monitor.
- The oximeter determines the percentage of arterial oxygen saturation of functional haemoglobin. Significant levels of dysfunctional haemoglobin such as carboxyhaemoglobin or methaemoglobin may affect the accuracy of the measurement.
- Cardio green and intravascular dyes, depending on the concentration, may affect the accuracy of SpO2 measurements.
- The performance of the oximeter may be affected by the presence of a defibrillator.
- The oximeter may not work on all users. If you are unable to achieve stable readings, discontinue use.
- The oximeter has motion tolerant software that minimises the likelihood of motion being misinterpreted as good pulse quality. In some circumstances, however, the oximeter may still interpret motion as good pulse quality; the user should minimise motion as much as possible.

- Do not use caustic or abrasive cleaning agents on the oximeter or probes.
- Do not mix new and old batteries at the same time; it may cause the batteries to leak. Dispose of batteries properly.
- Batteries may leak chemicals if unused for a long period of time. Remove the batteries if the oximeter is going to be stored for more than one month.
- The oximeter is a precision electronic instrument and must be repaired by trained personnel only.
- Follow local government rules and recycling instructions regarding disposal or recycling of the device and its components.
- Always store the oximeter in a cool and dry place: temperatures between -25°C to 70°C (-13°F to 158°F) relative humidity less than 95%. Avoid direct sunlight.

INTRODUCTION

▶ Intended Use

The Fingertip Pulse Oximeter is indicated for use in measuring oxygen saturation of arterial haemoglobin (SpO2) and pulse rate. It is intended for patients in a no-motion state. Users must be over 7 years old and weigh more than 40 kg.

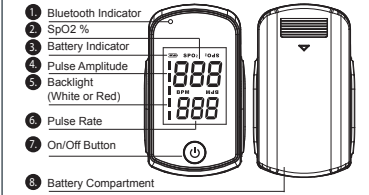
This device is indicated for non-invasive spot checking.

A functional tester cannot be used to assess the accuracy of the pulse oximeter.

▶ Principle of Measurement

The Fingertip Pulse Oximeter determines functional oxygen saturation of arterial haemoglobin (SpO2) by measuring the absorption of red and infrared light passing through perfused tissue. Changes in absorption caused by the pulsation of blood in the vascular bed are used to determine oxygen saturation and pulse rate.

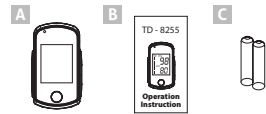
▶ Meter Appearance and Key Functions



1. Bluetooth Indicator
Blue light appears when bluetooth is turned on.
2. SpO2 %
The measurement result of oxygen saturation in percentage.
3. Battery Indicator
4. Pulse Amplitude
The strength of the signal is detected by the oximeter.
5. Backlight (White or Red)
Backlight is white while in measuring mode. Backlight blinks red if the oxygen saturation value falls below 85% (high priority visual alarm).
6. Pulse Rate
The measurement result of pulse rate in beats per minute.
7. On/Off Button
Is used to turn the oximeter on or off.
8. Battery Compartment

▶ Contents of the System

The Fingertip Pulse Oximeter includes the following items:



- A. Fingertip Pulse Oximeter
- B. Operation Instructions / Warranty Card
- C. AAA-Size Alkaline Batteries x 2

Confirm that the above listed items are packed with the Fingertip Pulse Oximeter. If any item on this list is missing or damaged, contact GRx Diagnostics. **All of the system with accessories is provided non-sterile.**

BEFORE USE

▶ Battery Replacement

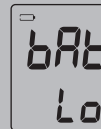
Make sure the oximeter is off when replacing the batteries.

The oximeter is powered by two 1.5V AAA size alkaline batteries. You can replace new batteries using the following steps.

1. Press the edge of the battery cover and lift it up.
2. Remove the old batteries and replace with two 1.5V AAA size alkaline batteries.
3. Close the battery cover carefully and make sure the cover is snug and fits correctly. It is important that the cover is closed correctly to ensure the oximeter remains waterproof.

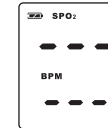
NOTE

Only use new 1.5V AAA batteries with this device. Replace the batteries as soon as possible when a low battery symbol appears.

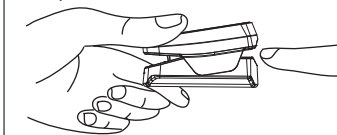


▶ Operation

STEP 1. Turn on the oximeter by pressing . Do not move your finger when starting test. Do not move your body while testing.



STEP 2. Open the clamp and put one of your fingers into the rubber hole of the oximeter (it is better to let your finger touch the bottom) before releasing the clamp.



NOTE

1. Consult healthcare professionals before you start to use the oximeter.
2. The oximeter sensor may not work on cold fingers due to reduced circulation. Warm or rub the finger to increase circulation, or reposition the sensor.
3. Check the sensor application site

frequently to determine circulation, positioning and skin sensitivity. **The recommended maximum application time at a single site is 4 hours.**

STEP 3. After detecting the pulse signal, the oximeter shows the readings of SpO2 and pulse rate on the display. The readings will be updated based on the signal received with each pulse.



STEP 4. While testing, if you press , the screen will rotate 180 degrees.



TERMS & CONDITIONS OF WARRANTY

1. GRx Diagnostics warrants this product to be free of defects in workmanship and materials within the said warranty period on the Warranty Certificate.
2. During the warranty period this product is bound to the defective, you may send it with the Warranty Certificate to our office for warranty service. GRx Diagnostics will then repair or replace defective parts, or exchange the whole product as GRx Diagnostics may choose, with no additional charge to the original owner. After such repair, replacement or exchange, the product will be warranted for the remaining time of the warranty period.
3. This warranty is valid only if the Warranty Certificate and Warranty Registration Card are duly completed with date of delivery product, serial number and if the Warranty Registration Card are duly completed with date of our website www.grxdiagnostics.co.uk no later than 6 months from the date obtained.
4. This warranty is void if this product has been repaired or serviced by an unauthorised person. This warranty does not cover defects caused by misuse, abuse, accident, tampering, lack of reasonable care, fire or any other acts beyond human control.
5. Except as stated in the above paragraphs, GRx Diagnostics disclaims all other warranties, including those of merchantability or fitness for a particular purpose with respect to the use of this product. GRx Diagnostics shall not be liable for any direct, consequential or incidental damages arising out of the use or inability to use the product.



Please cut off this 'Dealer's portion' of the Warranty Registration Card, insert it in an envelope and post to:
GRx Diagnostics
4 Wintonlea, Monument Way West,
Woking, Surrey, GU21 5EN, UK

NOTE

The backlight will blink red if the oxygen saturation value is below 85%.



STEP 5. Keep pressing and the oximeter will turn off.

NOTE

Below is a description of the effect on displayed and transmitted SpO2 and pulse rate data values by:

- data averaging and other signal processing for 8 secs,
- the data update period for 1 sec,
- the alarm condition delay for 1 sec,
- alarm signal generation delay for 1 sec, including the effects of any selectable operating mode that affects these properties.

DATA TRANSMISSION VIA BLUETOOTH

You can transmit your SpO2 and pulse rate data from the oximeter to your device via Bluetooth. Please contact GRx Diagnostics for assistance.

Please note that you must complete the pairing between the oximeter and Bluetooth receiver before transmitting data.

You can use the GRx Fingertip Pulse Oximeter with the GRx HC APP. GRx HC APP is available on the App Store/ Google Play for free download. Connect your mobile device to the internet to search and download the GRx HC APP.

1. Turn on the **Bluetooth** function on your mobile device.
2. With the oximeter off, press and hold to turn Bluetooth on.
3. Follow the instruction of GRx HC APP to pair the device. (Search to find the oximeter and then add it into app)
4. After successfully pairing the GRx HC APP with your device, the Bluetooth function of the oximeter should be on before transmitting data to your APP.

Bluetooth indicator on the oximeter:

BLUETOOTH INDICATOR	STATUS
Flashing Blue	The Bluetooth function is on and waiting for connection.
Solid Blue	The Bluetooth connection is established.

NOTE

- Under which situations the pairing is required: (A) you first receive and use the oximeter; (B) change a new device for re-pairing.
- Make sure your device supports Bluetooth Smart Technology, has Bluetooth actually turned on with the meter within the receiving range before transmitting the data. For iOS and Android devices, please find the GRx HC APP on the App Store and Google Play respectively.
- The Bluetooth functionality is implemented in different ways by the various mobile device manufacturers; incompatibility issues between your mobile device and the oximeter may occur.



Support Mobile:

iOS or Android and Bluetooth 4.0



WARNINGS

Make sure your device has the Bluetooth function turned on and the oximeter is within the receiving range before transmitting the data.

CLEANING THE OXIMETER

Cleaning the oximeter is just as important as ensuring proper use. For surface-cleaning and disinfecting the oximeter and reusable SpO2 probes, we recommend the following:

1. Turn off the oximeter before cleaning.
2. Wipe the surfaces with a soft cloth, dampened with a mild detergent or isopropyl alcohol solution. If low-level disinfection is required, a cloth dampened with 10% bleach / 90% water solution may also be used. Do not use undiluted bleach or any cleaning solution (other than those recommended here) as permanent damage could result.

NOTE

Do not spray, pour, or spill any liquid on the oximeter, accessories, switches or openings.

MAINTENANCE AND STORAGE

- Replace the batteries when the low voltage indicator is on.
- Clean surface of the Fingertip Oximeter before use.
- Remove the batteries inside the battery compartment if the oximeter will not be operated for a long time.
- It is best to preserve the product in a place where ambient temperatures range from -25°C to 70°C (-13°F to 158°F) and humidity range below 95% R.H.
- It is recommended that the product be kept in a dry place. A damp environment may affect its lifetime and may even damage the product.

SYMBOL INFORMATION

	Type BF Equipment
	Caution, consult accompanying documents
	Manufacturer
	Authorised representative in the European Community
	Collection for electrical and electronic equipment
	Temperature limitation
	Consult instructions for use
SN	Serial number
IP22	Ingress protection rating
	Humidity limitation
	Alarm

Distributed by GRx Diagnostics
4 Wintonlea, Monument Way West,
Woking, Surrey, GU21 5EN, UK
Website: www.grxdiagnostics.co.uk
Customer care line: 01483 755133

TaiDoc Technology Corporation
51-7F, No. 127, Wugong 2nd Rd.,
Wugu Dist., 24888 New Taipei City,
Taiwan
www.taidoc.com



MedNet GmbH
Borkstraße 10,
48163 Münster, Germany

TROUBLESHOOTING

Symptom	Possible Causes	Solutions
The oximeter cannot be turned on.	The batteries are dead.	Replace all batteries.
	The batteries are installed incorrectly.	Verify correct battery orientations.
SpO2 or pulse rate displays are missing.	Defective LCD display.	Displayed values may not be reliable; discontinue use of the oximeter.
SpO2 or pulse rate displays unstable.	Finger may be trembling or placed incorrectly on the probe	Try not to move, or retry by placing the finger at the correct position on the probe.
Disruption in the oximeter performance.	Electromagnetic interference (EMI).	Remove the oximeter from the EMI environment.
Battery is low and " → bAt Lo " is shown on LCD.	The batteries are low.	Replace the batteries immediately.

SPECIFICATION

Model No.	TD-8255
Dimension & Weight	63(H)x37(W)x32(D) mm, 40g without batteries
Display	LCD
Power Source	Two 1.5V AAA alkaline batteries
Battery Life	Batteries can be used continuously for 8 hours (for reference only, it depends on different brands of AAA alkaline batteries)

External Output	Bluetooth
Measurement and Display Range	0% to 100%
Resolution	1%
Accuracy	100% ~ 80% ±2%; 79% ~ 70% ±3%; others are undefined.
Method	Dual wavelength LED
Pulse Rate	
Measurement and Display Range	30 to 250bpm
Resolution	1bpm
Accuracy	±1bpm or ±1%, whichever is greater
Operating Conditions	10°C to 40°C (50°F to 104°F); Below 95% R.H. (non-condensing)
Meter Storage/ Transportation Conditions	-25°C to 70°C (-13°F to 158°F); Below 95% R.H. (non-condensing)
Product Life Time	12 months
Range of Peak Wavelengths	660nm and 880nm
Maximum Optical Output Power of Light Emitted by Oximeter Probe	15mW
Classification	
Type BF Applied part	Type BF Applied part
Safety	IEC60601-1
EMC	IEC60601-1-2
Harmonized Standard	ISO 80601-2-61:2011
Water-resistance	IP22
Mode of Operation	Spot Check / Monitoring



WARRANTY REGISTRATION CARD

(Dealer's Portion)

Product Name:
 Owner's Name:
 Address:
 Tel No: (M) (H) (W)
 Email:
 Date of Birth: Gender: M F
 Date obtained: / / Serial No:
 Day Month Year

GP Surgery name and Address:

*IMPORTANT: To qualify for the warranty, please fill in this card and mail to us within 6 months from date product obtained.



YEAR WARRANTY

WARRANTY CERTIFICATE

(Owner's Portion)

Product Name:
 Owner's Name:
 Address:
 Tel No: (M) (H) (W)
 Email:
 Date of Birth: Gender: M F
 Date obtained: / / Serial No:
 Day Month Year

GP Surgery name and Address:

*NOTE: Please produce this card for warranty service.