WARRANTY CARD				
Model No.:	Lot No.:			
Invoice No.:	Date of Purchase			
Purchased By:	Contact No.:			
Address	OOIII			
Dealer's Name				
Dealer's Sign & Stamp				

Passim Lifesciences Ltd. warrants this units free of any defect in material, workmanship and operation, under normal use, for a period of one year from the date of purchase. If any part become defective during the warranty period Passim Lifesciences Ltd. will repair or replace (if not repairable) the same, free of cost. This shall not apply to any parts that are considered as expandible or deteriorable in the course of normal use. Passim Lifesciences Ltd. shall be relieved of any liability and warranty shall cease to apply if:

- This is not used in accordance with the instructions in the operational manual.
- · It is used with any equipment not complying with the specification of this unit.
- · It is not regularly maintained.
- The unit is disassembled, repaired or operated by person not authorized by Passim Lifesciences Ltd.
- · Damage caused due to negligency.

Mfg. Lic. No.: MFG/MD/2022/000615 For any complaint/Suggestion please contact:

· The unit is operated in corrosive materials or in the harmful atmosphere.

Customercare Number: 1800 309, Timing: 9am - 7pm, Mon. - Sat.

Email ID: customercare@drodin.in, Website: www.drodin.in

The warranty card is not filled completely and produced at the time of warranty claim.

claim.				
Symbols MD	Medical Device	Refer Instructions Manual	LOT Lot No.	Keep Away From Sunlig
A	No Trash	Manufactured By	SN Serial NO.	Manufacturing Date
\triangle	Warning/Caution	n		
	esciences Lt	d. hase-II. Panchkula - 13	4113 Harvana-	INDIA

IM/OIR/56-00



Non-Contact Thermometer MODEL NO. - OIR-002 INSTRUCTION MANUAL



Please read instruction manual before use

Intended Use:-Please open the package carefully before use, check whether all accessories are available

or not and whether any component is damaged during transportation, and perform installation and operation following this user manual. In case of any damage or operation problem, please contact the dealer or contact Dr. Odin directly. You will need the following information when making your claim; device model, serial number, purchase date, and your contact information and address Package Contents

No.	Name	Quantity
1	Infrared Thermometer	1
2	PouchBattery (AAA)	2

Instruction Manual Read the following precautions carefully before using the thermometer

• Take care of the temperature probe lens, which is fragile.

Safety Precautions:-

hefore use

3

∧ Attention

- Dispose used batteries with care. To protect the environment, you are recommended to
- send the used batteries to a designated collection point.
- Remove the batteries if the thermometer will not be used for more than two months.

- Do not immerse the thermometer in water or expose it to direct sunlight.
- Do not subject the thermometer to vibration or impact.
- Do not take body temperature readings within 20 minutes after you do physical
- exercises or get excited.
- Do not use the thermometer for continuous temperature monitoring purposes.
- Do not immerse the thermometer into water or other liquid. Clean and disinfect the
- thermometer as described in the "Cleaning and Disinfection" chapter.
- Do not touch the tip of the temperature probe, on which a precise temperature sensor resides.
- Do not touch the tip of the temperature probe, on which a precise temperature sensor resides.
- The ambient temperature must not be extremely high or low. To make sure accurate readings, keep the thermometer under room temperature for more than 30 minutes

thermometer. Risk of pollution! The user is recommended to send the overdue thermometer to local garbage disposal site or send it back to us. 2 AAA batteries of 3v are the only replaceable accessories of the thermometer. Please

• Do not use the thermometer under an ambient temperature higher than 40°C (104°F) or

• Do not use the thermometer under an ambient temperature higher than 40°C (104°F) or

lower than 10°C (50°F), which is beyond the operating temperature range of the

lower than 10°C (50°F), which is beyond the operating temperature range of the

do not use the batteries of other voltages or specifications.

thermometer

Warning:-

medical professionals

- The thermometer is not intended to diagnose or treat any health problem or disease. The measurement results are for reference only.
- It is dangerous to make a self-diagnosis or self-treatment based on the obtained measurement results. For such purposes, please consult a physician or other

1

- O Do not charge an alkaline dry-cell battery or throw it in fire. Otherwise, the battery may explode.
- O Do not disassemble the thermometer or attempt to repair it. Otherwise, the thermometer may be damaged permanently
- O During measurement, do not use a mobile phone or any other device that may cause
 - O Do not use the thermometer in an environment where flammable anesthetic mixture with air or with oxygen, or nitrous oxide is available.

 - O Please keep the thermometer out of the reach of children.

 - Symbols:-
 - - Type BF applied part.

electromagnetic interference.

- Attention must be paid.
- The action is prohibited.

Information about the manufacturer.

		Body Part	Normal Temperature Range			
	ake a bod	ly temperatur	e on the forehead, in the ear canal, undo erature measured at different parts of t			
\triangle	Inaccurate reading or damage to the thermometer may occur if the thermometer is not used correctly.					
\triangle	A personal injury or damage to the thermometer may occur if the thermometer is not used correctly.					
IPX0	Degre	e of protection against the Ingress of water.				
X	1	cycling.	ateriais siloulu de serit to a dedicateu c	onection poil		

This product complies with the MDD93/42/EEC requirements.

Waste electrical materials should be sent to a dedicated collection point

Mouth 35.5°C-37.5°C / 95.9°F-99.5°F 34.7°C-37.3°C / 94.46°F-99.14°F Armpit Anus 36.6°C-38.0°C / 97.88°F-100.40°F The normal body temperature range slightly varies with age and gender. Generally,

36.1°C-37.5°C / 97.0°F-99.5°F

35.8°C-38.0°C / 96.44°F-100.40°F

newborns or children have higher body temperature than adults, and adults have higher body temperature than the elderly. Women's body temperature are appropriately 0.3°C higher than men's.

Variation in body temperature:-

Date of manufacture

Forehead

Ear canal

C€₀₄₈₂

Consult the instructions for use

Normal body temperature varies by the time of day and is also affected by external factors. The body temperature of an individual is the lowest between 2:00 a.m. and 4:00 a.m. and the highest between 14:00 p.m. and 20:00 p.m. An individual's body

temperature sensor, and a Microprocessor. 3) Operating principle: - The infrared temperature sensor collects infrared energy emitted by the forehead. After being focused by a lens, the energy is converted into a

temperature probe to the target.

Product Description:-

1) Overview :- Infrared Thermometer OIR002measures the human body or an object temperature based on the infrared energy emitted by the forehead or an object (such as

2) Structure: The thermometer consists of a shell, an LCD, buttons, a beeper, an infrared

milk and water). You can quickly get measurement results after pointing the

Intended use: The Infrared Thermometer OIR002 is a non-contact infrared

temperature reading by the thermopiles and the measurement circuit.

in the

differ

thermometer intended to obtain the body temperature from the forehead. It may be used by medical professionals or by consumers in a home environment. 5) Contraindications:- None

Features:-1. Good safety:-Passive infrared receiving technology

2. Easy operation • Handheld design, easy operation One-click automatic temperature measurement

3. Quick response:-1-second measurement

4. High accuracy:-Advanced infrared temperature sensor, with high sensitivity

• Enhanced accuracy with automatic temperature calibration 5. Diverse functions:-

• 20 temperature readings stored in memory • Forehead/Object temperature measurement • Fever alert, with a configurable alert threshold

• Non-contact measurement, preventing cross-infection

 Switching between °C and °F • Switching between mute/un-mute mode (measuring sound notification) Automatic power-off, power-saving

6. Extensive application scope:-

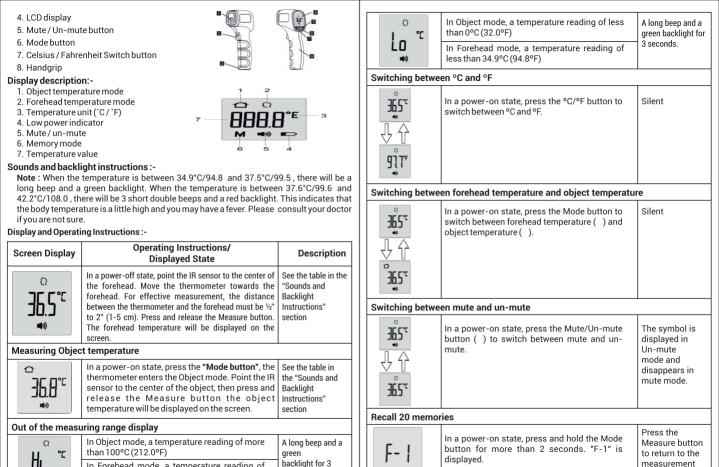
Applicable to all groups of people

Product Structure:-

1 IR sensor

2. Power-on button / Measure button

temperature typically changes by less than 1°C each day 3. Battery cover



measurement

interface

backlight for 3

seconds

In Forehead mode, a temperature reading of

more than 42.2°C (108.0°F)

	shown, followed by the recorded reading. Press the "oC/oF button" again for the next recorded data. 2 will be shown, followed by the recorded reading. A maximum of 20 temperature readings can be recalled. Note: 1 represents the newest data.	
ever alert thres	hold settings	
F-2	When "F-1" is displayed, press the Mode button . Then " F-2 " is displayed.	Press the Measure button to return to the measurem ent

Press the °C/°F or the button. The fever alert

threshold is displayed. The threshold value

increments by 0.1°C/°F every time the °C/°F

button is pressed, and decrements by 0.1°C/°F

every time the button is pressed. The tunable

range is 35.0°C-42.0°C (95.0°F-107.6°F).

775

Press the °C/°F or the

	Er[and a red backlight for 3 seconds.						
	D	When the battery voltage is lower than 2.5V \pm 0.1V, the low battery symbol will appear on the display. Please replace the batteries.	Silent					
	Power-off							
	In any mode, if there is no operation in 10 seconds, the thermometer will power off automatically.							
	Measurement Process:-							
Ш	1. Select the measurement mode.							
	■ Press the Measure button to power on the thermometer. Select the measurement mode using the Mode button.							
	■ The symbol indicates the Forehead temperature mode. The symbol indicates the Object temperature mode.							
H	2. Press the Measure button to start a measurement.							
	■ When taking the forehead temperature, point the IR sensor to the center of the forehead.							

Move the thermometer towards the forehead, the distance between the thermometer and the forehead must be ½" to 2" (1-5 cm). Press and release the Measure button. The

The ambient temperature is higher than 40.0°C

An error occurs when data is being read from or

(104.0°F) or lower than 10.0°C (50.0°F).

object temperature will be displayed on the

3. After a measurement.



A long beep

backlight for 3 seconds.

A long beep

and a red

■ After each measurement, clean the thermometer with a dry soft cloth, and put the

screen.

Error information & low battery

Er

Silent

interface.

The

default

fever alert

threshold

is 37.6°C.

button, 1 will be

thermometer in a dry and well-ventilated place. ■ The thermometer automatically powers off if it is not used in 10 seconds.

forehead temperature will be displayed on the screen. ■ When taking the object temperature, Point < the IR sensor to the center of the object. The distance between the thermometer and the object must be 1/2" to 2" (1-5 cm).

Press and release the Measure button. The

Notes: 1. The thermometer is suitable for an indoor environment without strong air convection

temperature. 3. Make sure the sense head is free of foreign matters before use:

conditioner or a heater

4. Make sure the forehead has no sweat and no hairs covered before measure the forehead

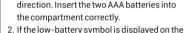
2. Do not hold the thermometer for a long time, because it is sensitive to the ambient

between the thermometer and the target. For example, winds from a fan, an air-

temperature: otherwise, the result could be incorrect: 5. No intense emotion or strenuous exercises before measuring:

Replacing Batteries

1. Slide the battery cover off along the marked



screen, replace the batteries.





A Make sure that the batteries are installed correctly. Otherwise, the thermometer may be damaged. A Batteries of a same type should be used. Dispose the used batteries in accordance with

the local environmental policies. ⚠ The thermometer is provided with batteries that were installed in the factory. When you

start to use it in the first time, open the battery cover, then remove the insulating piece. Cleaning and Disinfection:-

Cleaning:-Recommended detergents:

* Medical detergents: * Home use mild detergents:

Cleaning steps:-

- 1. Take the batteries out before cleaning. 2. Clean the temperature with a soft cloth. Clean the lens
- of the temperature probe with a cotton swab.
- 3. Wipe the thermometer body with a slightly damp soft cloth.
- AKeep water off the lens during the cleaning process. Otherwise, the lens may be
- damaged.

- ⚠ The lens may be scratched if it is cleaned with a piece of tissue paper, which might result
- in inaccurate readings. △ Do not clean the thermometer with corrosive cleansers. During the cleaning process, do
 - not touch the lens using hard objects, do not immerse any part of the thermometer into
- liquid, or allow liquid to penetrate the thermometer.

Disinfection

Becommended disinfectants: * Isopropyl alcohol solution (concentration: 70%)

- 1. Wet the clean soft cloth with a small quantity of disinfectant, wipe the thermometer and
- auickly dry it.
- 2. Disinfect the thermometer body with a cloth slightly moistened with 75% medical alcohol
 - may be damaged or quickly aged.

Disinfecting steps:-

* Medicinal alcohol (concentration: 75%)

* Sodium hypochlorite solution (concentration: 3%)

- A Do not use hot steam or ultraviolet radiation for disinfection. Otherwise, the thermometer
- \triangle Clean and disinfect the thermometer under the temperature of +10 \sim +40 (50 -104), the relative humidity of 15%~85%RH (no condensation) and the barometric pressure of 86kPa~106kPa
- Maintenance:-
- Preventive inspection & maintenance period
- 1. Ensure the safety of thermometer, and check whether it has potential safety hazards in
- normal use each week, e.g. whether the lens is broken, the shell has cracks and the sensing head is polluted. Do not use the thermometer with potential safety hazard. Clean
- the thermometer if not used for a long time. 2. Store the thermometer in a dry, dust-free, and well-ventilated place. Make sure that the
- thermometer is not exposed to sunlight. Make sure that the storage and transportation environments meet the requirements.
- 3. Remove the batteries if the thermometer will not be used for more than two months. Troubleshooting:-
- Problem The thermometer
- fails to power on.

- "Er1" is displayed.

The temperature

the typical body

The temperature

reading is higher

than the typical body

temperature range.

reading is lower than

temperature range.

- Polarities of the batteries are reversed
- The ambient temperature is lower

- - Low battery

40°C (104°F).

cold environment.

- Possible Cause

than 10°C (50.0°F) or higher than

probe and the target is too long.

The temperature probe is damaged.

The lens of the temperature probe is dirty.

- - Change the batteries.

installed correctly.

- - Solution

Make sure that the batteries are

Take a measurement under an

ambient temperature between

10°C (50.0°F) and 40°C (104°F).

Clean the lens using a cotton swab.

- The distance between the temperature Move the thermometer closer to the target.
 - Wait for more than 30 minutes
- The thermometer is used within 30 minutes after being taken from a

 - after the thermometer is moved into the measurement environment.

 - Contact the manufacturer

Specifications:-			Security Class:-					
Product Name	Infrared Thermometer	Type of protection against electric shock: internally powered equipment. Degree of protection against electric shock: Type BF applied part.						
Product Model	OIR002	Degree of protection against electric snock: Type BF applied part. Degree of protection against ingress of water:IPX0						
Power Supply Mode	Internal power supply		Safety degree of using in flammable anesthetic gas blending with air, oxygen or nitrous oxide: Non-AP/APG No application parts of the thermometer prevents defibrillation charge effect. No application parts of the thermometer output signal.					
Operating Voltage	DC 3V	1						
Battery Model	AAA x 2							
Operating Mode	Continuous operating	1			anent installed device.			
Display	Segment LCD		Storage and Trai					
Measure time	About 1 second		1. Transportatio		transported using general transportation tools. Severe			
Latency Time	About 1 second				t be avoided during transportation.			
Emissivity	0.95		2. Storage					
Measuring Distance	½" to 2" (1 to 5 cm)				e packaged and then stored in a well-ventilated room ambient temperature must be between -20°C and +55°C			
Measuring Range	Forehead: 34.9°C-42.2°C (94.8°F-108.0°F)				numidity must be lower than 95% (non-condensing), and the			
	Object: 0.0°C-100.0°C (32.0°F-212.0°F)		atmospheric	pressure must	be 50-106 kPa.			
Accuracy (Laboratory)	±0.4°F/±0.2°C from 94.8°F to 108.0°F (34.9°C to 42.2°C)		EMC Information	n-Guidance an	d Manufacture's :-			
	±0.5°F/±0.3°C, Outside the range of 94.8°F to 108.0°F (34.9°C to 42.2°C)	11	Declaration:- CAUTION:-					
Resolution	0.1°C (0.1°F)	1	The Infrared Thermometer OIR002needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided for in the ACCOMPANYING DOCUMENTS.					
Memory	20 temperature readings							
Low-battery Alert	The low-battery symbol is displayed if the power voltage is lower than 2.5 V±0.1V.		Portable and mobile RF communications equipment can affect Infrared Thermometer OIR002. The Infrared Thermometer OIR002should not be used adjacent to or stacked with other equipment.					
Automatic Power-off	The thermometer automatically powers off if it is not used in 10±1 seconds.							
Dimensions (mm)	150×88.2×40.6		Guidance and manufacturer's declaration – Electromagnetic emission – for all equipment					
Weight (g)	109.5 g (with batteries)		and systems					
Operating Environment	Temperature: 10°C-40°C (50°F-104°F)	1	Guidance and ma	nufacturer´s de	claration – Electromagnetic emission			
	Humidity: 15%-95% RH, non-condensing	The Infrared Thermometer OIR002is intended for use in the electromagnetic environment						
	Atmospheric pressure: 86–106 kPa		below. The custor		of the Infrared Thermometer OIR002 should assure that it is used in			
Storage and Transportation	Temperature: -20°C to 55°C (-4°F-131°F)		Emissions test	Compliance	Electromagnetic environment - guidance			
	Humidity:0- 95% RH, non-condensing		RF emissions	Group 1	The Infrared Thermometer OIR002uses RF energy only for its			
The infrared thermometer has h	Atmospheric pressure: 50–106 kPa		CISPR 11	Group i	internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.			
ASTM laboratory accuracy requirements in the display range of 98°F to 102°F (37°C-39°C) for skin IR thermometers is ± 0.5 °F (± 0.3 °C). Note that for mercury-in-glass and electronic thermometers, the requirement per ASTM Standards E667-86 and E1112-86 is ± 0.2 °F (± 0.1 °C).			RF emissions CISPR 11	Class B	The Infrared Thermometer OIR002 is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.			

Guidance and manufacturer's declaration – Electromagnetic immunity –for all equipment and systems			NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies. NOTE 2 These quidelines may not apply in all situations. Electromagnetic is affected by absorption and					
Guidance and manufacturer's declaration – Electromagnetic immunity			reflection from structures, objects and people					
The Infrared Thermometer OIR002is intended for use in the electromagnetic environment specified below. The customer or the user of the Infrared Thermometer OIR002should assure that it is used in such an environment.			a. Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field					
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment- guidance		location in which the OIR002is used exceed			
Electrostatic discharge (ESD) IEC 61000-4-2	±6 kV contact ±8 kV air	±6 kV contact ±8 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.	the OIR002should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the OIR002. b. Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.				
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.	Recommended separation distances between portable and mobile RF communications equipment and the EQUIPMENT or SYSTEM -for EQUIPMENT and SYSTEMS that are not LIFE-SUPPORTING				
Guidance and manufacturer's declaration – Electromagnetic immunity –for equipment and systems that are not life-supporting			The Infrared Thermometer OIR002is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the Infrared Thermometer OIR002can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Infrared Thermometer OIR002as recommended below, according to the maximum output power of the communications equipment.					
Guidance and manufacturer's declaration – Electromagnetic immunity The Infrared Thermometer OIR002 is intended for use in the electromagnetic environment specified below. The customer or the user of the Infrared Thermometer OIR002should assure that it is used in								
such an environment.			Rated Separation distance according to frequency of transmitter m					
Immunity test IE	C 60601 test level C	ompliance level	Electromagnetic environment -guidance	maximum	'	<u> </u>		
RF IEC 8	V/m 0 Mhz 0 2.5 Ghz	ec of re	ortable and mobile RF communications quipment should be used no closer to any part f the OIR002, including cables, than the commended separation distance calculated om the equation applicable to the frequency of	output power of transmitter W	80 MHz to 800 MHz $d = [\frac{3.5}{E_1}]\sqrt{P}$	800 MHz to 2,5 GHz $d = [\frac{7}{E_1}]\sqrt{P}$		
			ne transmitter. Recommended separation	0.01	0.12	0.23		
			stance $= \left[\frac{3.5}{E_1}\right] \sqrt{P} 80 \text{ MHz to } 800 \text{ MHz} d = \left[\frac{7}{E_1}\right] \sqrt{P} 800 \text{ MHz to } 2.5 \text{ GHz}$	0.1	0.38	0.73		
		w w	here p is the maximum output power rating of	1	1.2	2.3		
		th	e transmitter in watts (W) according to the	10	3.8	7.3		
transmitter manufacturer and d is the recommended separation distance in metres		100	12	23				
(m). ^b Field strengths from fixed RF transmitters, as determined by an Electromagnetic site survey,a should be less than the compliance level in each frequency range. ^b Interference may occur in the vicinity of equipment marked with the following symbol:				For transmitters rated at a maximum output power not listed above, the recommended separation distance d in metres (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer. NOTE 1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies. NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.				