

# VISIOFOCUS<sup>®</sup> VET

06610



## EN User Manual



Follow instructions for use



ATTENTION: read the warnings

In order to have the best performances, download the VisioVet App

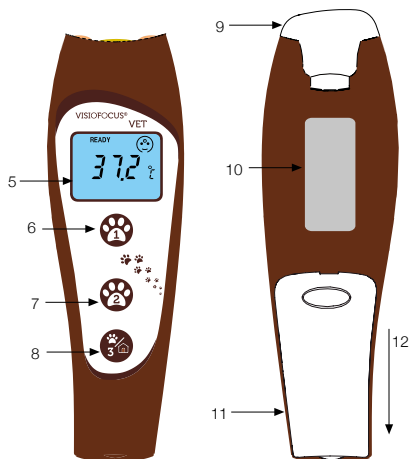
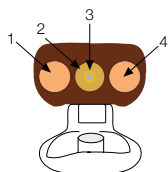





SCAN



DOWNLOAD

Fig. 1



1. Aiming light
2. Waveguide
3. Sensor (at the bottom of the waveguide)
4. Aiming light
5. LCD display
6. Button 1  for taking animal's body temperature
7. Button 2  for taking animal's body temperature
8. Button 3  for taking animal's body temperature or for taking other temperature readings
9. Protective cap
10. Label with serial number
11. Battery door (4 x AAA)
12. Slide to open

**INDICATION FOR USE:** VisioFocus® VET is an infrared thermometer designed for use by veterinarians and intended for intermittent measurement of animal body temperature.

## 1. INTRODUCTION

Dear Client, thank you for buying VisioFocus® VET, the non-contact thermometer designed to take the body temperature of animals.

VisioFocus VET is the evolution of Thermofocus®, the world's first non-contact thermometer, and of VisioFocus®, both meant for human use. After revolutionizing and simplifying the way human beings' temperature is taken, Tecnimed has thought of animals as well: usually, animals' internal temperature is taken by introducing a traditional thermometer in their rectum, a procedure which is invasive and annoying for the animal, and uncomfortable for the person taking the measurement.

With its range of non-contact thermometers for animals – which, following the launch of Thermofocus ANIMAL, now includes VisioFocus Vet, VisioFocus ANIMAL and VisioFocus PET – Tecnimed enables the body temperature of animals to be measured at a distance and from their eye: without touching their skin, without bothering them, in few seconds and in a simple way.

Should the measurement on the eye be not possible, you can take the temperature on an alternative area (par. #5.2), always with no contact and in a non-invasive way. You can search for a point comfortable for both you and each animal.

## 2. WARNINGS



Read carefully before use

### 2.1 Precautions

1. Use the thermometer in a draft-free room, at a steady temperature preferably between 16 and 40°C (60.8-104°F). VisioFocus VET can work also in environments with temperature from -7 to 15,9 °C and from 40,1 to 55°C (from 19.4 to 60.7°F and from 104.1 to 131°F), but its accuracy is not guaranteed (see also par. #11).

2. If the thermometer was stored in another room (or even in a drawer, cabinet, etc.), it should stabilise: before using it, run the manual calibration procedure (MQCS, par. #6). Alternatively, without touching the unit, wait 5 minutes for the temperature to stabilise through the AQCS (par.#6).

3. Avoid taking a temperature reading in the following situations:

- if the animal is in an area with drafts or if it has come from a ventilated room or from an area having a temperature different from that of the room where the thermometer is used;

- if, in the minutes before the reading, the animal:

- has been moving, walking or running;

- has been exposed to agents that could alter its temperature, e.g. shower, hair-drier, etc...

In all the above cases, wait a few minutes for the animal's temperature to stabilize.

4. The temperature reading is taken in the area included between the four light arches. Make sure that this area is fur-free as much as possible. If necessary, brush any hair away.

5. The temperature reading may be affected by local infections or injuries.

6. The gilt waveguide (see figure 1) is the most delicate part of the device. It is composed of a concave mirror that must be kept clean and intact. Any damage, dust or dirt would alter the temperature reading.

7. Do not handle the thermometer for longer than strictly necessary before taking the reading.

8. Do not use the thermometer in contact with any parts of the animal's body.

9. Do not use the thermometer in contact with objects or liquids, keep it away from sources of heat and out of direct sunlight. Should water seep into the thermometer, contact your Dealer immediately for Technical Service.

10. To prevent dust or dirt infiltrations in the waveguide, always close the cap.

11. Do not use the device while making a call with a mobile or cordless telephone or in the presence of strong electromagnetic fields.

12. Avoid knocking and dropping it, and do not use it if damaged or if it does not work properly.

## 2.2 Attention

**1. Failure to observe the above-mentioned precautions (par. #2.1) may lead to very low or very high temperature readings**, which cannot be attributed to product malfunctions.

**2. Do not use VisioFocus VET to take the temperature of human beings.**

3. No harm may be caused when the aiming lights are pointed in the eyes: the beams are totally harmless. They are not lasers but LEDs in compliance with the EN 62471.

4. The unit is a delicate measurement instrument and must not be used by children. It is not a toy. Keep it out of the reach of children or animals or people with limited sensorimotor skills. Small parts can be ingested or inhaled.

5. If the animal's fidgeting makes it difficult to take a correct reading, turn the aiming lights on before bringing the thermometer close to the animal in order to make the measurement as short as possible or take the reading in one of the alternative zones.

6. Since it never comes into contact with the body, it does not require any "disposable" protection covers.

### 3. HOW IT WORKS

VisioFocus VET detects the infrared radiation coming from the body of the animals. Any animals' body is subject to heat dispersion and, according to their race, it is more or less covered with fur and vascularized.

The ideal site for a precise measurement of the body temperature at distance is the eye, because it is an area which is not covered with fur and always highly vascularized, and moreover it replicates the actual internal body temperature. (Alternatively, it is possible to take a measurement in other areas, as indicated in par. #5.2).

It is important to remember that **each animal's individual temperature varies** according to the measurement's site and throughout the day, also in response to physical effort. Moreover, the body temperature can be affected by the outside outdoor temperature and other factors may also come into play. For these reasons, VisioFocus VET has got three different measuring buttons



(buttons 1, 2 and 3 – see fig. 1) and an APP that allows to associate an animal/measuring site to each button; therefore, when a button is pressed for the body temperature reading, the VisioFocus VET software automatically applies a correction factor according to the ambient conditions, and a correction factor determined according to the correction previously selected for that button (animal and/or measuring site) thus giving a resulting value comparable to that animal's internal temperature.


- To add an animal, read par. #4.1.
- To pair a button to an animal, read par. #4.2.
- To select or change the correction factor for an animal/ measuring site, read par. #4.3.
- To take measurements, read par. #5.

## 4. VISIOVET APP FEATURES

### 4.1 Registration of animals

To ensure accurate measurements for each type of animal, you need to select the animal or animals for which you wish to take the temperature. Proceed as follows:

- open the **VisioVet** app  ;

- go to 'Animals'  and click on  to add a new animal: fill in the required details (either general information for a type of animal or specific details for a particular animal).




- Follow the same procedure to add any other animals.

The 'Animals' screen  allows you to add an animal, view previous measurements for that animal (individually or via a graph), manually enter a measurement if required, or delete an animal.

NOTE: you can add animals even when the thermometer is not connected.


### 4.2 Button/Animal Pairing


The thermometer is factory-set by default with the following pairings:

	small dog
	cat
	object

This pairing will be automatically loaded into the list of animals in the **VisioVet** app the first time the device connects after downloading.

To pair a button with a different animal, proceed as follows:

- open the **VisioVet** app 

- go to 'devices'  and connect to the thermometer.


- go to «Home»  ;

- click on the selection area for button 1 to assign a specific animal type to the button



- enter the animal type you wish to assign to button 1 (e.g. small dog, cat, horse, etc.);
- select the area where you wish to take the temperature (eye, rectal area, ear or custom area): by default, the area suggested for that animal is selected;
- add any correction (see section #4.3).
- Repeat the process, as required, for the other two buttons.

**You can select the three most common animals on the three buttons, so that they are always ready without needing to use the app.**

To use button 3 to take the temperature of objects, instead of choosing an animal, select 'object'  – see section #5.3.

### 4.3 Calibration alignment

VisioFocus VET has been set on the basis of results of several tests made on pets and farm animals of different races.

Nonetheless, it is important to know that **there is not such a thing as a unique “normal” body temperature common to all animals.**

It may thus be necessary to set VisioFocus VET in accordance with different animals and with the chosen measurement area, and adjust the thermometer to that kind of animal's standard temperature, by proceeding as follows:

- 1) to adjust your thermometer to the animal's temperature, make sure:
  - the animal is healthy;
  - the animal is stabilized (it has been for 10-30 minutes in the room in which you are taking its temperature);
  - you know what is that animal's standard temperature taking it once again with a traditional thermometer).

Otherwise, refer to the following table.



**Tab. 4.3.1**

Tab 4.3.1		
ANIMAL	AVERAGE value in good health conditions	
Dog	38,8°C	101.8°F
Cat	38,7°C	101.7°F
Horse	38,0°C	100.4°F
Rabbit	39,0°C	102.2°F
Goat	39,7°C	103.5°F
Cattle	38,6°C	101.5°F

2) Take the temperature with VisioFocus VET on the chosen area as indicated on par. #5.1 and #5.2, by pressing the button associated with that animal.


3) Should the temperature taken with VisioFocus VET on the chosen area be substan-

tially different from the standard temperature (as measured with a traditional thermometer or as taken from the table 4.3.1), then **you may set VisioFocus VET temperature** by proceeding as follows:

- take note of the spotted difference: it will be the correction factor;
- in the **VisioVet** app, go to «Home»  ;
- click on the selection area of the button used for measurement;
- select the suggested measurement area (based on clinical studies), or adjust it manually;
- select the suggested correction (based on clinical studies), or adjust it manually;
- confirm with  .

The thermometer is now ready for use and the new corrective value (which will automatically include any other previous corrective value) will be kept in the device's memory for that button.

#### Example:

- normal temperature indicated in the table for cat: 38,7°C (101.7°F);
  - temperature taken with VisioFocus VET (including any corrective value previously set): 39,3°C (102.7°F);
  - The CURRENT difference is +0,6°C (+1.0°F).
-  Insert a corrective value of -0,6°C (-1.0°F)

You may fill the specific table at par. 13 and keep it as a reference..


**This procedure must be performed, ONLY if necessary, at first use and for each kind of animal.** For example, if you make this procedure for a big dog it should be valid also for other big dogs but not for small dogs.

Alignment is performed by selecting a button, but the alignment result for that animal will always apply to the other buttons as well.

## 4.4. Change of settings

Depending on where it is to be sold, your thermometer leaves the factory preset to:

- Celsius (°C) or Fahrenheit (°F) degrees.
  - mandatory or not mandatory MQCS (see par. #6).
- If necessary, those settings may be modified as follows:

- once the app is connected to the thermometer, go to 'Settings';  ;
- select your preferred setting.

## 5. HOW TO TAKE A READING


### 5.1 Body temperature reading: EYE

Insert batteries as explained in par. #10 and get familiar with VisioFocus VET: before taking the temperature on the animals, we suggest you practise by aiming the thermometer for example on a hand - par. #5.3).

Take the animal's body temperature by proceeding as follows:

- open the protective cap, by rotating it of 90° (fig. 2).

- Press the measurement button (for example, button 1

 if I have assigned button 1 to a cat and need to take a cat's temperature) and hold it down: the thermometer will switch on and the aiming lights will light up, allowing you to find the correct reading distance.

- Move the thermometer perpendicularly to the animals' eye until you see the four arches to make a complete circle around he eye (fig. 3).

If the thermometer is too far away the two lateral arches will be on the right of the inferior and superior arches (fig. 4); if it is too close, instead, they will be on the left (fig. 5).

Fig. 2

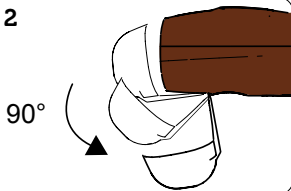


Fig. 3

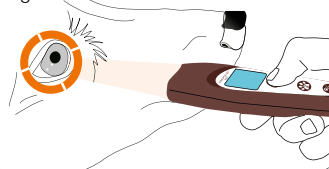


Fig. 4



No

too far

Fig. 5



No

too close

When it will be possible to see a complete circle made by the four arches (fig. 6), the thermometer is **at the right distance**.

Fig. 6

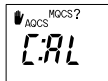


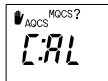
OK

correct distance

- Release the button and keep the thermometer steady while the lights flash.
- Read the temperature value on the display. If desired, you may take another reading immediately. **If necessary, align the calibration as indicated in par. #4.3.**
- Close the protective cap.

When the thermometer remains idle for 20 seconds, it reverts to stand-by mode and will display the room temperature for 4 hours before shutting off automatically. VisioFocus VET aiming lights are totally safe: they are not lasers but simple LED diodes, sometimes used on human beings as well.



**ATTENTION:** if, pressing a button, the display shows , it means it is necessary to stabilize the thermometer (AQCS or MQCS) before taking a measurement of the body temperature. Proceed as shown in par. #6. Once the thermometer is stabilized, proceed with the body temperature reading.

**REMEMBER:** if the thermometer was stored in a room different from the one in which the measurement is taken, the user will need to run the manual calibration procedure (MQCS - par. #6) before using it or wait 5 minutes for the thermometer to stabilize through AQCS without touching it (par. #6). If the animal comes from outside or from a different room, wait from 10 to 30 minutes (depending on the difference in the rooms temperature) before taking the reading, for the animal's temperature to stabilize.

## 5.2 Body temperature reading: ALTERNATIVE AREAS

Should you find it difficult to take the animal's body temperature on its eye, you can use one of the possible alternative areas.

### Rectal area:

lift the animal's tail up and, while keeping the button pressed, take a close-up scan horizontally and perpendicularly to the rectal area. This kind of measurement is recommended on the cows because it is easier than measuring the eye.

### Auricle:

the lights may be difficult to see. Just enter the auricle as much as possible, but without touching it and address the lights toward its bottom.

### Gums area:

lift the animal's upper lip and take the temperature on its gums (do not use this area immediately after meals).

### 5.3 Other readings

VisioFocus VET may also be used to take the temperature of objects, liquids or other surfaces in the 1-80°C (33.8-176°F) temperature range.


For example:


1. temperature of food, doghouse, bathwater, etc. In the latter case, remember to mix the liquid well before taking the reading (with hot liquids or foods, take the reading quickly to prevent condensation from forming on the waveguide (fig. 1) and wait 30 minutes before taking another reading);
2. room temperature by pointing the thermometer against a wall or a piece of furniture;
3. temperature of a wound, scar, burns, areas with inflammation or with circulations problem. You may also use VisioFocus VET to check the temperature of stimulated muscles, for instance on racehorses.

These last measurements must be considered as relative rather than absolute values. If taken on the skin, they will show the difference in temperature between two close or symmetrical areas.


In these cases, the presence of fur, as long as equally spread on the concerned areas, is not critical.

Proceed in this way:



- from the APP, select «object»  for the button 3 (see par. 4.2);
- Proceed as you would for a body temperature measurement (par. #5.1), but press

the button 3  .

### 5.4 Room temperature

When the thermometer is in stand-by mode, the room temperature, together with the flashing symbol  , remains displayed automatically for 4 hours after the last reading is taken.

As alternative, you can take the room temperature by pointing the thermometer

against a wall or a piece of furniture, by pressing the button 3  if it set in «object»  (par. #4.2).



## 6. ROOM TEMPERATURE CALIBRATION


If the thermometer is handled for a long time or if it comes from a location having a temperature different from that in which the animal is and the reading is taken, the device needs to stabilize to the new room temperature.

You may let the device stabilize automatically by leaving it for at least 5 minutes in the room in which the measurement has to be taken without touching the device; it can also appear a countdown, in minutes and seconds, that indicates the necessary time for the thermometer to stabilize (AQCS, Automatic Quick Calibration System).

You have two possibilities:

1. wait the end of the countdown, without touching the thermometer; or
2. run the **Manual Quick Calibration System MQCS** as follows:

- open the cap;
- press the buttons 1  and 2  simultaneously: the symbol "CAL" will appear on the display (fig. 7).
- Within 10 seconds, press the button

3  and take the temperature of an internal wall or a piece of furniture close to the area in which the animal is (fig. 8).

- Release the button: the lights will flash twice **slowly**, and the display will show the room temperature, together with the letters MQCS.

The thermometer keeps this calibration for 60 minutes.

Fig. 7

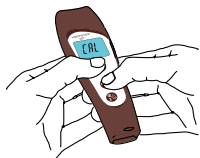
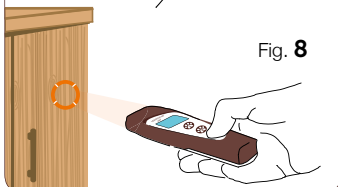


Fig. 8



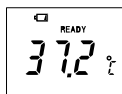
To ensure a reliable temperature reading, during calibration do not aim the thermometer at a surface having a temperature obviously different from the one of the area where the animal is. If you perform the calibration and take the reading indoors, do not focus the thermometer on outside walls, windows, sources of heating or cooling (radiator, air conditioner, lamp, computer, surface in contact with the human or animal body, etc.). If the measurement is made outdoor you can make the calibration on the floor, no matter if grass, ground, tiles, bricks, concrete, asphalt as long as it is in the shade.


This system enables the thermometer to take sufficiently accurate readings. When the thermometer is in stand-by mode, the "MQCS" letters appear on the display indicating that a manual quick calibration has been performed.

If you see the letters "AQCS" it means instead that the thermometer has performed the automatic calibration.

## 7. MEANING of DISPLAY MESSAGES

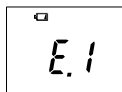
### Messages about batteries



**DESCRIPTION:** during normal operation, the symbol  appears on the display.

**PROBLEM:** the batteries are running low, but it is still possible to take several readings.

**SOLUTION:** obtain new batteries for changing them when the signal E.1 (below) will appear.

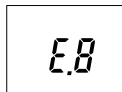


**DESCRIPTION:** "E.1" and the symbol appear on the display, or the unit does not turn on at all.

**PROBLEM:** the batteries are dead.

**SOLUTION:** remove the batteries immediately and replace them when necessary (see par. #10).

### Messages about thermometer's stabilization




**DESCRIPTION:** the display reads "E.8".

**PROBLEM:** the thermometer was moved before the light started flashing, or the area is subject to strong electromagnetic fields.

**SOLUTION:** wait until the light starts flashing before moving the thermometer; make sure that there are no active calls with mobile or cordless telephones in the vicinity.

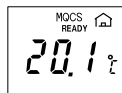


**DESCRIPTION:** the display reads C:AL and/or a countdown (in minutes and seconds), a pictogram of a hand inviting to stop , and the messages AQCS and MQCS?

**PROBLEM:** the thermometer is not stabilized.

**SOLUTION:**

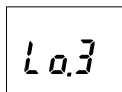
- wait until the AQCS countdown has run its course without touching the thermometer, or
- perform an MQCS (par. #6).



**DESCRIPTION:** while in stand-by mode, the room temperature displayed is accompanied by the symbol MQCS or AQCS.

**MEANING:** the thermometer has undergone manual or automatic quick calibration (par. #6).

### Messages about the detected temperature

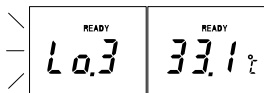


**DESCRIPTION:** the display reads "Lo.3".

**PROBLEM:** the temperature to be detected is under the limit for unit operation ( $<1^{\circ}\text{C}/<33.8^{\circ}\text{F}$ ).

**SOLUTION:** the temperature reading cannot be taken. If you are ta-

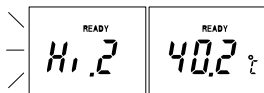
king the animal's body temperature with buttons 1 or 2 (or the button 3 set for an animal) make sure that the instructions have been followed.



**DESCRIPTION:** the display shows “Lo.3” and the value alternately.

**PROBLEM:** the temperature is between 1 and 33,9°C (33.8 and 93°F). If the measurement was taken to get the internal body temperature, the temperature seems to be too low.

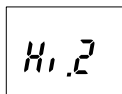
**SOLUTION:** check that the guide wave is not dirty or damaged, and that the animal has not just come from a location with a lower temperature. Otherwise, verify the thermometer's settings.



**DESCRIPTION:** the display shows “Hi.2” and the value alternately.

**PROBLEM:** ATTENTION! The temperature is between 40,0 and 44,5°C (104 and 112.1°F).

**SOLUTION:** check the general situation of the animal.

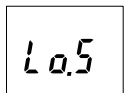


**DESCRIPTION:** the display reads “Hi.2”.

**PROBLEM:** if you are taking the animal's body temperature with buttons 1 or 2 (or the button 3 set for an animal), the body temperature appears too high ( $\Rightarrow$ 44,5°C or  $\Rightarrow$ 112.1°F). If the button 3 set for objects temperatures has been pressed: the surface temperature exceeds the limit for unit operation ( $>$ 80°C or  $>$ 176°F).

**SOLUTION:** in the first case, make sure that the instructions have been followed. In the latter case, the temperature reading cannot be taken.

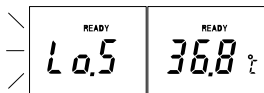
#### Messages about room temperature working range



**DESCRIPTION:** the display reads “Lo.5”.

**PROBLEM:** the room temperature is under the device's operative range: -7°C (19.4°F).

**SOLUTION:** move to another, warmer room, and wait for the animal's stabilization.

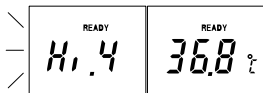


**DESCRIPTION:** the displays shows “Lo.5” and the value alternately.

**PROBLEM:** the room temperature is between -7 and 15,9°C (19.4 and 60.6 °F)

**SOLUTION:** the temperature reading can be taken

but accuracy is not guaranteed.



**DESCRIPTION:** the display shows “Hi.4” and the value alternately.

**PROBLEM:** the room temperature is between 40,0 and 55°C (104 and 131°F).

**SOLUTION:** the temperature reading can be taken but accuracy is not guaranteed.



**DESCRIPTION:** the display reads «Hi.4”.

**PROBLEM:** the room temperature is above the device's operative range the room temperature is too high (above 55°C/131°F).

**SOLUTION:** move to another, cooler site and wait for the stabilization of the animal.

## 8. TROUBLESHOOTING

1. The display does not turn on: the batteries are completely dead or incorrectly inserted; replace or reinsert them correctly paying attention to the symbols indicated in their site (par. #10).

2. Two lateral arches are visible out of the other two arches on the measuring area: the unit is not placed at the correct distance; move the thermometer forward or back until you see a circle (fig. 5).

3. The arches are hard to see: there is too much light in the room, or the measuring area is very dark or covered by fur; cast a shadow over the animal or, in the case of auricle, enter the auricle as much as possible, but without touching it, and address the lights toward its bottom.

4. The waveguide (fig. 1) is damaged or water has seeped into the thermometer: contact your Dealer immediately for technical service or the manufacturer at **info@tecnimed.eu or WhatsApp +39 0332 402350**.

5. The thermometer temperature reading is too low:

- make sure that the warnings (par. #2) have been met;
- check that the waveguide (fig. 1) is not soiled or damaged; if it is, clean it as indicated in par. #9 or contact your Dealer for technical service or the manufacturer at **info@tecnimed.eu or WhatsApp +39 0332 402350**;

- make sure the thermometer is perpendicular to the measuring area (fig. 3);

- set the thermometer (par.# 4.3).

6. The thermometer temperature reading is too high:

- make sure that the warnings have been met (par. #2);

- set the thermometer (par.# 4.3).

7. The thermometer seems to be blocked, does not turn off/does not go on standby or the aiming LEDs remain on after the button is released: reset the thermometer by removing and reinserting the batteries.

## 9. CLEANING

**CLEANING THE WAVEGUIDE:** the thermometer waveguide (fig. 1) is delicate and should always be clean. Therefore, when the thermometer is not being used, we recommend that you always keep the cap on.

However, if you need to remove dust or dirt from the waveguide or sensor at its base, use a cotton swab that has been slightly dampened with alcohol. Do not use any other objects or liquids as the surface of the waveguide or sensor could easily be scratched or damaged. Never let any excess liquid penetrate into the waveguide and sensor. Remove all dirt and make certain that nothing accumulates at the bottom of the waveguide where the sensor is located.

**CLEANING THE THERMOMETER BODY:** use a soft cloth dampened with soap and water and possibly re-wipe with a sodium hypochlorite disinfectant.

**DO NOT USE the thermometer for at least 30 minutes after cleaning.**

## 10. INSERTING/REPLACING BATTERIES

- Set your thumb in the oval hollow on the back of the unit, press down and slide the battery hatch out as shown in figure 9.

- Remove the battery hatch.

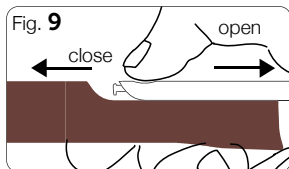
- Remove the old batteries and dispose of them as required in the containers provided for this purpose.

- Insert 4 new AAA - LR03 batteries, preferably alkaline, carefully complying with the position indicated in their housing.

- To close the hatch, slide it in the opposite direction from which it was opened.

After changing the batteries, let the thermometer stabilize for 20 minutes before taking a temperature reading or perform the MQCS.

**Remove the batteries if you do not expect to use the thermometer for a long time.**



## 11. TECHNICAL CHARACTERISTICS

### 11.1 Measuring technical data

Resolution: 0.1

Room temperature working range: from -7 to +55°C (from 19.4 to 131.0°F) <sup>(1)</sup>

- Measurement range and accuracy:

	Measurement range:	Accuracy:
Body temperature readings (par. #5.1 e 5.2):	from 34,0 to 44,5°C / from 93.2 to 112.1°F <sup>(2)</sup>	from 1,0 to 33,9°C / from 33.8 to 93.1°F: ±1,0°C / ±1.8°F
		from 34,0 to 35,9°C / from 93.2 to 96.7°F: ±0,3°C / ±0.5°F
Other readings (objects, liquids, surfaces, par. #5.3):	from 1,0 to 80,0°C / from 33.8 to 176.0°F	from 36,0 to 39,0°C / from 96.8 to 102.2°F: ±0,2°C / ±0.4°F <sup>(3)</sup>
		from 39,1 to 42,5°C / from 102.3 to 108.5°F: ±0,3°C / ±0.5°F
		from 42,6 to 80,0°C / from 108.6 to 176.0°F: ±1,0°C / ±1.8°F
Ambient temperature readings (shown when in stand-by), par. #5.4):	from -7 to +55°C / from 19.4 to 131.0°F	±1,0°C / ±1.8°F

- Range of correction factor (par. #4.3): from -9,0 to +9,0°C (from -19.8 to 19.8°F). The correction range is dynamic with reference to the correction factor set by the manufacturer.

<sup>(1)</sup> When the room temperature is lower than 16°C (60.8°F) or higher than 40°C (104.0°F) accuracy and the operating range are not guaranteed and the display shows "Lo.5" or "Hi.4" respectively and the value alternately.

<sup>(2)</sup> When the body temperature is below 34°C (93.2°F), the message 'Lo.3' alternating with the value indicates that the temperature detected is too low. When the body temperature is above 40°C (104.0°F), the display shows 'Hi.2' to indicate that the temperature detected is particularly high.

<sup>(3)</sup> The ASTM E1965-98-2009 standard requires ±0,2°C (±0.4°F) accuracy for infrared thermometers in the 37-39°C (98.6-102.2°F) temperature range while the ASTM E667-86 and E1112-86 standards require ±0,1°C (±0.2°F) precision for mercury and electronic thermometers in that same temperature range.

## 11.2 General specifications

- Power supply: 4 AAA (LR03) alkaline batteries - 1.5 V
- Life of high quality batteries: up to 3 years or 30,000 readings (depending on use)
- Dimensions: mm 144 x 43,5 x 21,5 (5.67 x 1.71 x 0.85 inches) - including cap
- Weight: 98 gr. (3.45 oz) - batteries included
- Distance from the subject: calculated using an optical aiming system (approximately 6 cm / 2.3 inches).
- Large, clearly visible display.
- Expected useful life: 10 years.
- Atmospheric pressure range of operating conditions: from 700 hPa to 1,060 hPa.
- Relative humidity range of operating conditions: from 15% to 93%, non-condensing.
- Degrees of protection provided by enclosures (IP Code): IP22
- Internally powered equipment; mode of operation: continuous.
- The VisioFocus VET LEDs emit low light radiation in compliance with EN 62471.
- VisioFocus VET is a veterinary medical device, clinically tested at veterinary offices and university departments in Italy, UK, Japan.

## 11.3 Storage specifications

Keep in a clean, dry place, preferably at a temperature ranging between +16 and +40°C (60.8 and 104°F).

Store at a temperature not lower than -25°C (-13°F) or higher than +70°C (158°F).

## 12. DECLARATION of CONFORMITY








Tecnimed srl, P.le Cocchi, 12 - 21040 Veduggio (VA) - Italy is the manufacturer of the VisioFocus VET 06610 non-contact infrared thermometer for animal use.

TECNIMED guarantees that VisioFocus VET 06610 meets all the provisions applicable in the 2014/35/EU and 2014/30/EU Directives.






VisioFocus VET has been manufactured following appropriate production processes in accordance with an ISO 9001 and ISO 13485 certified Quality System, with GMP requirements and with the following standards (related to medical devices): EN 60601-1, EN 60601-1-2, EN 60601-1-6, EN 62366, EN 62471, EN 62304, ASTM E1965-98.



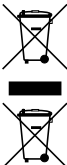
#### 14. SYMBOLS on the thermometer and in this user manual:

	Manufacturer
	Serial Number
	European Conformity mark: this product conforms to European Directives 2014/35/EU and 2014/30/EU.
	Instructions for use
	Read instructions for use
	CAUTION: read the warnings
	Direct current
<b>IP22</b>	Protected against insertion of objects >12,5 mm (>0,5 inches) and against vertical dripping water when tilted up to 15°

## Waste disposal:

Paper collection		Plastic collection	
	Carton box		Plastic base (if included) and protective film (heat-shrink)
	Cardboard base (if included)		Thermometer protective sleeve (if included) and blue protective film on the thermometer (if present)
	Instructions for use (to be disposed of only at the end of the product's life)		

## Disposal of end-of-life thermometers and used batteries:

	<p>Crossed-out wheeled bin (disposal for WEEE and batteries). This product contains electrical and electronic components and batteries that may contain materials which, if disposed with general waste, could be damaging to the environment. Residents of the European Union must follow specific disposal or recycling instructions for this product. Residents outside the European Union must dispose or recycle this product in accordance with local laws or regulations that apply.</p>
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## **WARRANTY**

Tecnimed s.r.l. guarantees this product against any lack of conformity for 24 months as of the date of purchase (indicated on the cash register receipt or other fiscal document). Follow the instructions given by your Dealer for the technical service procedures.

This warranty does not cover the batteries and any damage caused by defective or run down batteries or damage to the casing due to carelessness or improper use. The warranty is also voided if:

- the product is tampered with, damaged or used improperly;
- the label on the back bearing the serial number is removed, damaged or rendered illegible;
- the product is opened or repaired by unauthorized personnel;
- the product has been damaged due to non-compliance with the instructions given in this manual.

If Technical Service is required, contact the Manufacturer (**info@tecnimed.eu** or **WhatsApp +39 0332 402350**), or your Dealer.

In case the Product was purchased through an Online-store, warranty service can only be provided through the Internet Seller, where the product was purchased. In case of any lack of conformity, the product will be either repaired or replaced, as decided by the Manufacturer or Dealer, at their sole discretion. Any repaired or replaced product does not extend the original warranty beyond the period of 2 years from original date of purchase. If, after technical evaluation, the Product is found not to be covered by the terms and conditions of this Warranty (because no lack of conformity is found), Tecnimed reserves the right to charge a handling fee for technical verification and delivery.

Under no circumstance may Tecnimed be held responsible for damages related to the improper use of the product or for costs exceeding the original price of the product.

Product name: **VisioFocus® VET**

Model: **06610**

Veterinary medical device

Patents: US 7,651,266B2 - US 8,128,280 - US 8,821,010 - EP 1.283.983  
- EP 1.886.106 - EP 2577242(B1) - KR 10-1898897 - CN 103026192B -  
US11022496 - EP4105621A2 - WO 2011/151806A1.

Other international patents pending.



Manufactured in Italy by:

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