



The MiniTemp Veterinary Temperature Monitor from Vetronic Services LTD

Users Manual Ver 1.01



Index

General	3
Preparation	3
Turning the unit ON	4
LED Indicator	5
Comfort Zone	5
Within the Comfort Zone:	5
Above the Comfort Zone:	5
Below the Comfort Zone:	5
Changing Temperature Units	5
Turning the unit OFF	5
Low Battery Warning	5
Maintenance and Cleaning	6
MiniTemp Specifications	7

The MiniTemp Veterinary Temperature Monitor

General

The MiniTemp Veterinary Temperature Monitor is a digital single channel thermometer that has been designed specifically for the veterinary market. The unit uses detachable probes to accurately monitor and report the environmental or body temperature. Each probe uses a tiny 1.2mm sensing thermistor resulting in a very small sensor body size. The small physical size and low thermal inertia of the sensor produces very fast response times to changes in temperature. Two probes are supplied; a rigid probe and a flexible probe.

Temperature measurements can be displayed on the screen in degrees Celsius or degrees Fahrenheit. MiniTemp also has an indicator for patient temperatures inside a Comfort Zone, indicating if a patient is too hot or too cold.

Preparation

Before the MiniTemp can be used, fit a 9v PP3-type battery in the battery compartment at the rear of the unit. To do this, remove the unit from its protective rubber boot by peeling the boot away from the unit as shown in figure 1.



Figure 1

Fit the battery and replace the unit in the protective rubber boot.
Fit a temperature probe to the unit using the 3.5mm jack plug to 3.5mm jack socket extension lead and then plug your probe of choice into this lead.

Sensors/Probes

The unit is supplied with two sensors; a rigid probe and a flexible probe. Both types use a 1.2mm fast-response thermistor and are identical in their electrical performance. Wherever possible use a thermometer sleeve over the temperature probe before inserting into an orifice. The probes are suitable for rectal or oesophageal use and should be cleaned between uses. Care should be exercised when inserting the probes, which should glide in smoothly without any obstruction. If obstruction is felt, withdraw the probe, lubricate and re-position. Never force a probe if resistance is felt as severe injury may result. Probes can be plugged directly into the main unit or used with the 1m extension cable provided for easier positioning



Rigid Probe



Flexible Probe

Turning the unit ON

Turn the unit ON by pressing the ON/OFF button once. The green LED at the top of the unit will come on and the screen will show some characters.

LED Indicator

The LED indicator at the top of the unit will flash either Red or Green.

Flashing Green: The temperature measured by the sensor lies within the Comfort Zone

Flashing Red: The temperature measured by the sensor lies outside the Comfort Zone

Comfort Zone

The Comfort Zone is a region of temperature values that indicate for veterinary mammalian species that the patient is neither too hot nor too cold. This region is taken to be from 36.6°C to 39.6°C.

Within the Comfort Zone:

If the temperature measured lies within the comfort zone then the LED will flash green and there are no warning symbols displayed on the top status line of the display.

Above the Comfort Zone:

If the temperature exceeds 39.6°C then the LED will flash red and a warning Sun symbol will also flash in the status line of the display.

Below the Comfort Zone:

If the temperature falls below 36.6°C then the LED will flash red and a warning snowflake symbol will also flash in the status line of the display.

Changing Temperature Units

MiniTemp can display temperatures in degrees Celsius or Degrees Fahrenheit. The units in use are shown in the top right hand corner of the screen. To change units, press and hold the ON/OFF button for 1 second until the units change. Release your finger as soon as the units change.

Turning the unit OFF

To turn the unit OFF, press and hold the ON/OFF button until the screen shows the message "OFF". Then release your finger. As you do this the temperature units (°C or °F) on the screen will change but your required settings will not be lost.

Low Battery Warning

When the battery voltage is too low to run the unit and produce accurate readings, then the Battery symbol will flash in the top left hand corner of the screen. Replace the battery when this symbol is flashing.

Maintenance and Cleaning

The main unit can be wiped over with a damp cloth to remove any stains and marks. The front panel is resistant to normal detergents and ammonia-based cleaning compounds.

Temperature probes should be carefully cleaned with a soft cloth using surgical spirit, Isopropyl alcohol or general disinfectants such as Chlorhexidine.

**DO NOT HEAT STERILIZE THE TEMPERATURE PROBES OR EXTENSION
LEADS AS THIS WILL DESTROY THEM**

MiniTemp Specifications

Mechanical:

Unit Size:	117 x 68 x 26mm
With fitted rubber boot:	145 x 88 x 30 mm
Weight:	125g
With fitted rubber boot:	225g

Electrical

Battery Type:	PP3 9v Alkaline or re-chargeable
Current:	Average 5mA Standby 90uA

Operating

Temperature range	5°C to 45°C
Accuracy	+/- 0.1C within specified range Accuracy outside of this range is unspecified

MiniTemp is manufactured in the United Kingdom by

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