

The Atria Fever check Bio Sensor

This is a “Chip” that can be implanted in both pets and livestock.

This 2 x12mm microchip **does not have an identification function**. It therefore does not replace the ISO 11784 identification chip.

This biosensor makes it possible to avoid taking rectal temperatures, which is always difficult and synonymous with stress for the animal.

The use of this chip allows immediate, repeated, non-invasive measurements and thus allows monitoring of the animal. Any significant occasional or continuous variation in temperature must draw the owner's attention to the physiological state or health of their animal.

Experimentation carried out by veterinarians specializing in domestic carnivores, equines and livestock showed that the temperature transmitted by the FEVER CHECK sensor depended on the location of installation.

Due to the wide variety of breeds of domestic carnivores, we recommend intradermal implantation of the FEVER CHECK sensor, whereas for equines, intramuscular implantation is preferable, the transmitted temperature being very close to the rectal temperature.

In order to facilitate the analysis of the temperature displayed by Atria readers, we have developed a new concept: the **reference temperature or TR**.

When configuring the Atria reader, the user will be asked to choose between “Domestic carnivores” and “Equines”.

If “Equines” has been selected the temperature displayed will be the **rectal temperature**. If “Domestic carnivores” has been selected the reference temperature will be different from the rectal temperature.

Memorizing a single temperature measurement is not sufficient to be certain of having the correct reference temperature. This is why we recommend taking five temperatures. After taking these five initial readings from the “Chip”, the reader will automatically calculate the average of the temperatures read and store it in its memory as the **reference temperature (TR)**.

These five temperature measurements can be consecutive or spaced over several days (recommended for horses).

This process of calculating the reference temperature is entirely automatic, the reader taking care of calculating the average of the temperatures read as well as recording them in its memory.

Owners who may have several animals (dogs, cats, etc.) are expected to be able to record up to 10 reference temperatures. Each **TR** is associated with a WDT number specific to each FEVER CHECK microchip.

A reset function for reference temperatures is provided in the reader menu.

Although obvious, it is necessary to remember that the temperature of the animal depends on factors such as its state of health, the ambient temperature and its physical activity. In order to have the most accurate temperature measurement possible, this will be carried out by the veterinarian or by the owner on a healthy animal, at rest and in a neutral atmosphere, i.e. approximately 18 to 23°C.

The reference temperature(s) having been calculated and stored automatically by the reader, each time the FEVER CHECK microchip is read again, a comparison of the temperature read with the stored reference temperature will be carried out. The result will be displayed on the reader display.