

## Actitag™ Temperature

### ACTI-TAG™ Temperature, technology at the service of traceability

**ACTI-TAG™ Temperature**, the application dedicated to temperature measurement and traceability enables the user to record the temperature of any product continuously and on a real-time monitoring throughout the transport, conservation or distribution phases.

**ACTI-TAG™ Temperature**, the active intelligent label by Technopuce is small and is equipped with a tiny flexible lithium battery, a microprocessor and its memory, a temperature sensor, a clock, a transponder (13.56 MHz) and its antenna, capable of being read contactless by a radio base station (radio frequency identification).

**ACTI-TAG™ Temperature**, the active intelligent label is a single use product, manufactured in large quantities at a low cost for the user.

**ACTI-TAG™ Temperature**, the active intelligent label interests all the operators concerned by problems related to conservation of sensitive goods and objects at a controlled temperature :

- ♦ fresh foods
- ♦ pharmaceutical products
- ♦ blood products
- ♦ chemical products
- ♦ electronic and industrial components



#### Main characteristics:

- Low cost consumable mass produced product.
- Flexible 1 mm thin package.
- Self-powered system, excellent autonomy thanks to its flexible lithium battery (3.6 volts).
- Contactless transmission, RFID technology.
- Personalisable packaging, printable on both sides.

## SPECIFICATIONS

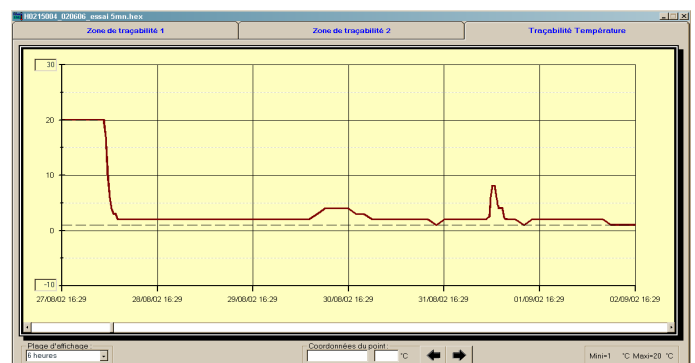
Size	Lenght	85.6 mm
	Width	54 mm
Thickness	< 1 mm	
Protected product	Password & single identification number	
Operating frequency	Transponder mode: 13.56 MHz	
Communication distance	Transponder mode: up to 10 cm	
User memory	Non-volatile memory EEPROM, 1 k bytes	
Temperature memory	Non-volatile memory EEPROM, 15 000 measuring points	
Sampling period	Configurable (1 minute to 10 hours)	
Precision of the temperature measurements	From – 10°C to + 50°C ± 1°C within a range of 20°C	
Surveillance	2 programmable alarm limits (high and low)	
Storage temperature	From – 20°C to + 80°C	
Material properties	Polymer molding hermetic to humidity, external environment	
Battery	Lithium / Manganese dioxide 3.6 volts	
Lifetime	Depending on the applications	

### **ACTI-TAG™ Temperature and transfusional safety**

The active intelligent label designed by Technopuce meets blood transfusion storage requirements. Thus, the traceability of blood and its by-products is considerably improved since information is made available to the different transfusion stakeholders throughout all the production processes of these products. Knowing the temperature makes it possible to secure the quality of the blood products and is therefore critical in reducing risks related to transfusions.

#### **Example of a temperature monitoring curve :**

The correlation between temperature and time makes efficient monitoring possible and guarantees compliance with the cold chain requirements by clearly indicating any temperature deviations and their duration.



Technopuce develops a wide range of applications: remote keyless entry, controlled access and security management, temperature monitoring, asset tracking and authentication management.

For further information, please contact our Sales & Application Department [contact@technopuce.com](mailto:contact@technopuce.com) or visit our Web site: <http://www.technopuce.com>.

These specifications are preliminary and can be customized according to customer requirements. Technopuce reserves the right to change this data without prior notice. Photo non-contractual.

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