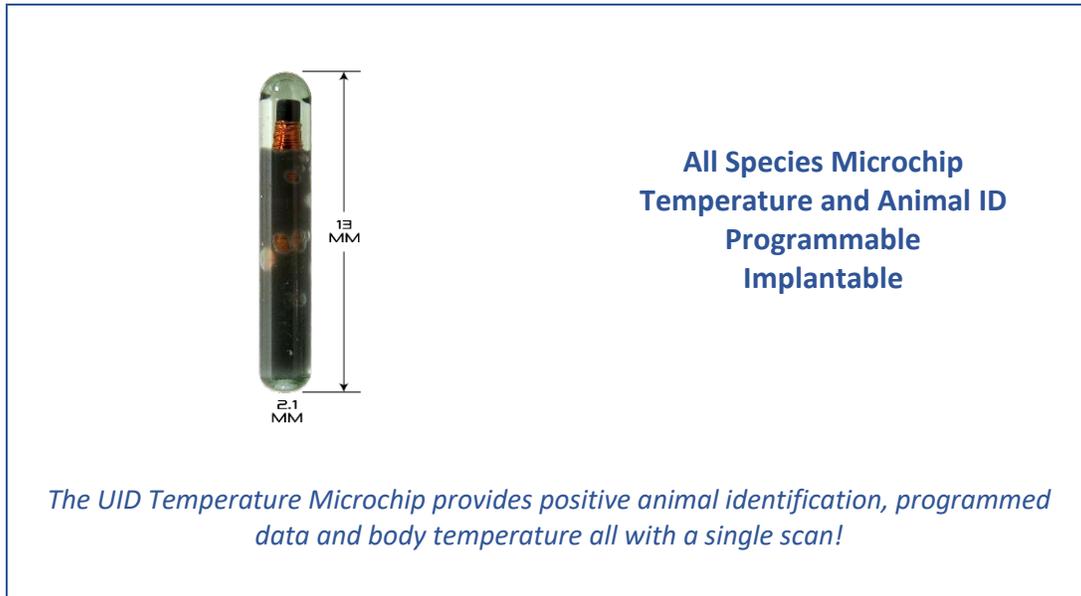


## UID Specifications Sheet: Temperature Microchip (UCT-2112)



The UID Temperature Microchip (UCT-2112) is a miniature, glass-encapsulated programmable transponder that provides positive animal identification and body temperature data with a simple scan. With intraperitoneally (IP) implanted microchips, core body temperature recordings are achieved with a high degree of accuracy of  $\pm 0.1^{\circ}\text{C}$ .

The UCT-2112 Temperature Microchip contains a unique 8-digit, non-repeating, alphanumeric code for positive animal identification. This passive, battery-free microchip comes with an additional 16 characters of onboard memory that enables read/write programmable capabilities. A feature that allows researchers to program the microchip with useful “human readable” data, such as study or project number, genotype or animal DOB. Microchip programming can be done in cannula prior to implantation using the UPS-60 Chip Provisioning Station, or after insertion in the animal using the UID reader base station.

With dimensions of 2.1mm in diameter by 13mm in length, the UCT-2112 Temperature Microchip is ideal for use in mice, rats and larger laboratory animals. Each microchip is supplied individually packaged in a sterile, disposable cannula for quick, simple and harmless implantation using a wide range of reusable UID injectors.

Following a simple scan with an appropriate UID reader, the UCT-2112 Temperature Microchip sends its 8-digit ID code, programmed data and animal body temperature automatically to the reader screen or computer program (i.e, Microsoft Excel, LIMS). Microchip read distances of up to 8 inches are feasible depending on the selected UID reader.

## Technical Specifications

- **Application:** Temperature and animal identification
- **Species:** All species (mice and larger lab animals)
- **Size:** 2.1mm x 13mm
- **Temperature Accuracy:**  $\pm 0.1^{\circ}\text{C}$  @  $38^{\circ}\text{C}$
- **Temperature read range:**  $25^{\circ}\text{C} - 50^{\circ}\text{C}$
- **Implantable:** IP, SQ or IM in mice and other species
- **Unique ID:** 100% unique 8-digit, non-repeating, alphanumeric RFID code. This code is permanent; it cannot be changed or deleted.
- **Programmable:** 1-16 alphanumeric characters for programming (read/write) with customized study information. Can be programmed in the cannula prior to implantation or in the animal. Once programmed it can only be removed or changed via UID Programming software.
- **Availability:** Provided in individually packaged in ETO sterile blister pack
- **Availability:** Provided in sharp, triple ground cannula (2.59mm O.D.) for easy insertion
- **Compatible Readers:** All UID readers with the Temperature Firmware installed (URH-1HP, URH-300HP, UBS-200, UBC-600)
- **Biocompatible:** Glass encapsulated (Shouff 8625 Biocompatible Glass)
- **MRI Compatible:** Tested at 12T with no heating, movement, or loss of permanent or programmed data
- **X-Ray Compatible:** Yes
- **Ultrasound Compatible:** Yes

