

## Product model

TSR602000-32

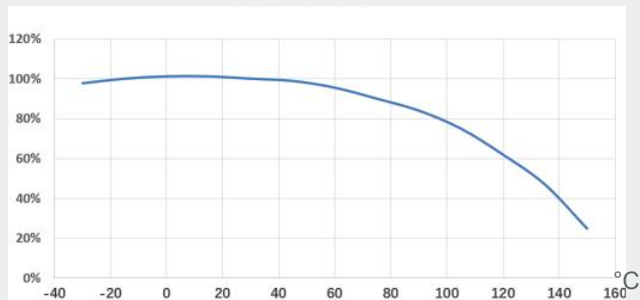
## Product introduction

TSR602000-32 is a flexible temperature sensor, it has the characteristics of wide temperature measurement range, high accuracy, long communication distance. It is small and easy to install.

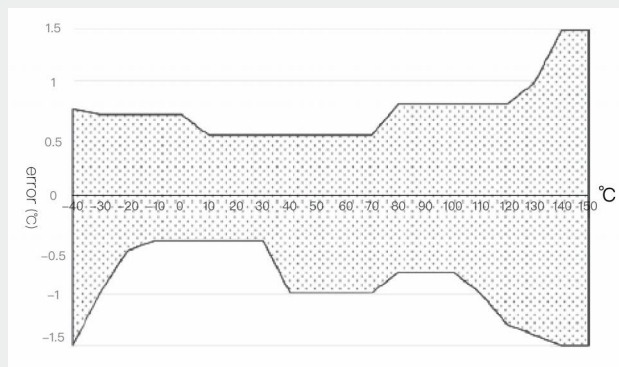


## Temperature measurement scope

Communication distance/max communication distance



Normalization sensor read distance and temperature relationship curve



Temperature error curve in range

## Key parameters

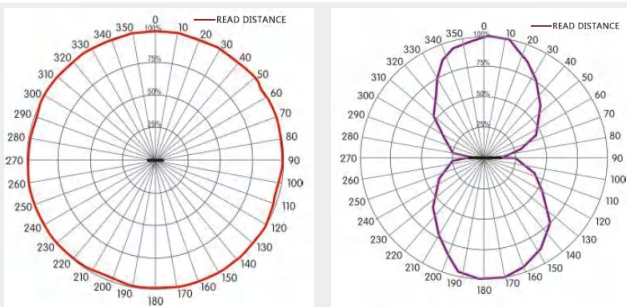
### Core performance

Protocol	EPC Global C1G2 v1.2
Frequency	902MHz~928MHz
Communication distance ( EIRP=4W )	4.0m
Chip series	LTU3 series
TID memory	128 bits
EPC memory	96 bits
User memory	160 bits (user editable part-128bits, sensor parameter-32bits)
Frequency offset	<2MHz
With endurance	100, 000 cycles

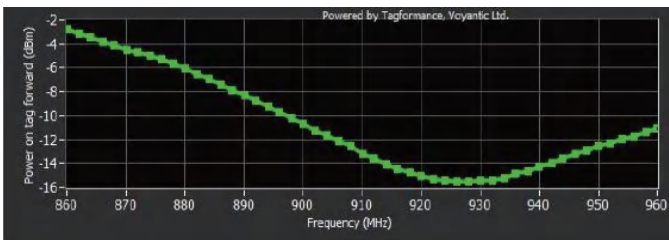
### Use environment ( Application background )

Working temperature	-40°C~+150°C
Endurance temperature	-40°C~+225°C
IP protection grade	IP55
Fall	1 m 200 times (plastic ground)
Application background	Free space, non-metal material surface
Data retention	>25 years

## Radiation Chart



## Sensitivity curve



## Installation methods and examples

**Installation method:** Paste the back glue on the outer packaging surface of vaccine, fresh food and other products.



## Key features

- Battery free, safe and reliable;
- Independent IDs,data never interface with each other;
- Low cost and meeting the requirements of mass application;
- Work in UHF band, not affected by common power frequency signals.
- UHF RFID technology is used, which is not affected by the electrical parameters and power load of primary equipment;
- Long temperature measurement range:  $-40^{\circ}\text{C}\sim+150^{\circ}\text{C}$ ;
- Contact with the actual hot spot, achieve higher accuracy to  $\pm 1^{\circ}\text{C}$ ;
- Radiation immunity level:  $\geq 10\text{V/m}$ .

## Application

- Medical cold chain, including vaccine transportation, minimum packing online temperature real-time monitoring, blood products transportation storage temperature monitoring, etc;
- Fresh food logistics, including high value added meat, sea food, etc. Whole chain single product grade temperature track, etc., guarantee service quality.

## Appearance characters

Color	Brown
Size (mm)	60*20*0.1

