浙江悦和科技有限公司
ZHEJIANG JOHAR TECHNOLOGY CO.,LTD

Ceramic anti-metal temperature sensor —TSC303005-32

www.johar.cn
Tel:0571-88560873

Product model

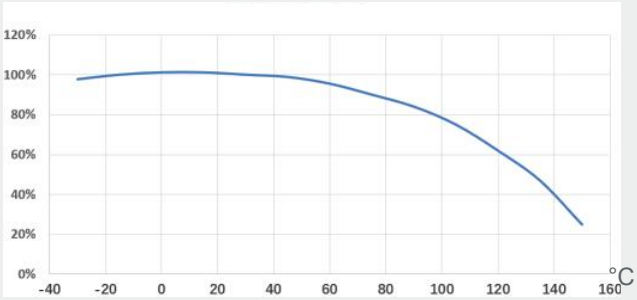
TSC303005-32

Product introduction

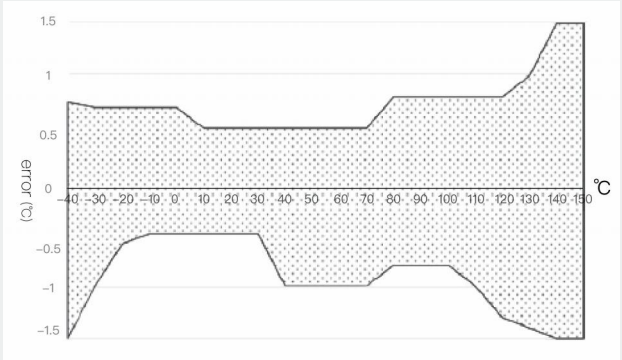
TSC303005-32 is a temperature sensor specially designed for switchgear busbar and the other complex environments, which has characters, such as wide temperature measurement scope, high precision, long communication distance and small dimension and convenient installation, especially applicable for temperature measurement applications under all kinds of metal environments it is applicable to the power, energy and special process production line, etc.

Temperature measurement scope

Communication distance/max communication distance



Normalization sensor read distance and temperature relationship curve



Temperature error curve in range

Key parameters

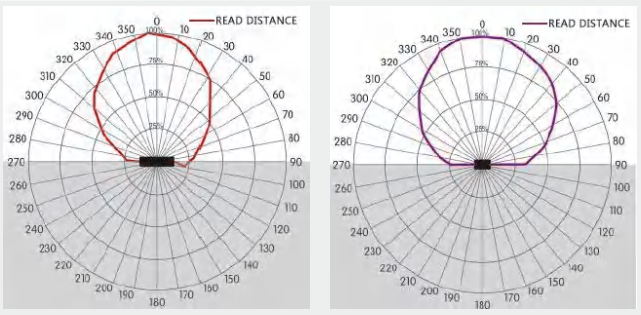
Core performance

Protocol	EPC Global C1G2 v1.2
Frequency	902MHz~928MHz
Communication distance （EIRP=4W）	8.0m
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

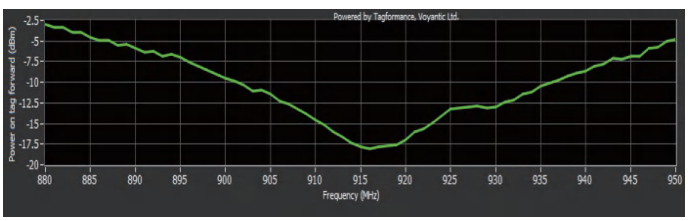
Use environment（Application background）

Working temperature	-40°C~+150°C
Endurance temperature	-40°C~+225°C
IP protection grade	IP67
Fall	1 m 200 times (plastic ground)
Application background	Metal surface optimization
Data retention	>25 years

Radiation Chart



Sensitivity curve



official account

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Installation methods and examples

Installation method: Pasted on the busbar or other metal surface.

Key features

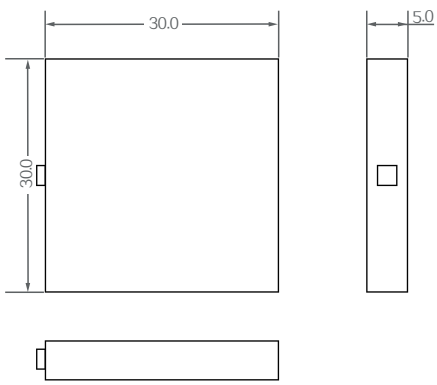
- Battery free, safe and reliable;
- Independent IDs,data never interface with each other;
- UHF RFID technology is used, which is not affected by the electrical parameters and power load of primary equipment;
- Long temperature measurement range：-40℃~+150℃;
- Ultra high temperature resistant design ensures no damage at -40℃~+225℃;
- Contact with the actual hot spot, achieve higher accuracy to ±1℃;
- Radiation immunity level ≥10V/m.

Application

- Power grid online temperature real-time monitoring, including high-voltage transformation and medium and low voltage distribution facilities key points online temperature real-time monitoring;
- High load IT equipments status monitoring, including IDC machine room server heating condition implementation track.

Appearance characters

Color	Silver
Size (mm)	30*30*5



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