Clip sensor—TSC250905-J32

Product model



TSC250905-J32

Product introduction



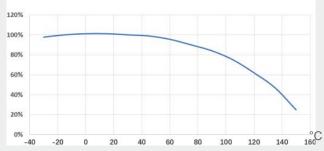
TSC250905-J32 is a temperature sensor specially designed for power switchgear moving contact, which has characters, such as wide temperature measurement scope, high precision, long communication distance, small dimension. It can be installed without changing the original equipment status of ring main unit and installed directly.



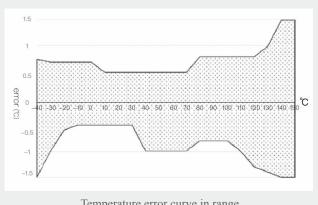
Temperature measurement scope



Communication	distance/ma	ax communi	cation distance	



Normalization sensor read distance and temperature relationship curve



Temperature error curve in range

Key parameters

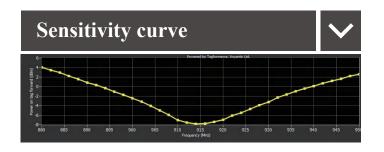


Core performance

Protocol	EPC Global C1G2 v1.2
Frequency	902MHz~928MHz
Communication distance (EIRP=4W)	2.5m
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	Switchgear moving contact
Data retention	>25 years







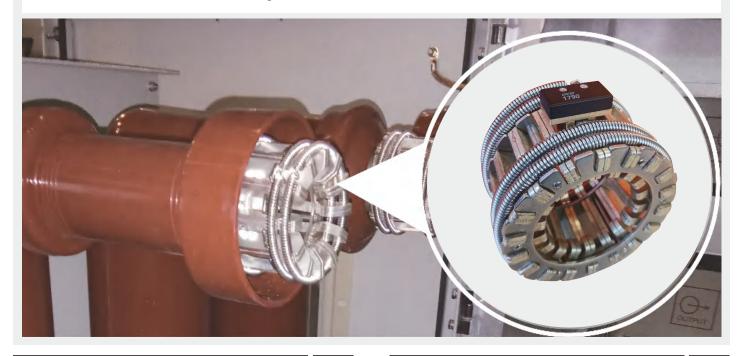
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Installation methods and examples

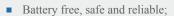


Installation method: Screw fixed on the moving contact.



Key features





- Independent IDs,data never interface with each other;
- Small size, match the temperature measurement requirements of the moving contact of the switchgear;
- UHF RFID technology is used, which is not affected by the electrical parameters and power load of primary equipment;
- Long temperature measurement range: $-40^{\circ}\text{C} \sim +150^{\circ}\text{C}$;
- Ultra high temperature resistant design ensures no damage at 40°C~+225°C;
- Contact with the actual hot spot, achieve higher accuracy to ±1°C.
- Combined with moving contact:

Insulation resistance \geq 2000 M Ω

Power frequency withstand voltage: 39kV/5min

42kV/1min

Partial discharge level: 24kV≤10pC

Lightning protection grade: 170kV/50ms

Radiation immunity level: $\geq 10V/m$



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Application



 Power switchgear cabinet moving contact online temperature real-time monitoring.

Appearance characters



