



ESL SECURITY GUIDEBOOK

The Key to Retail Security

Encrypted Cloud Platform

Durable and Resistant Devices

Secure Data Transmission





01

Independent “Key Protection”

Each ZKONG ESL is equipped with a unique key to encrypt and verify data during transmission and updates, preventing internal decryption and enhancing communication security.

The “key” is a core encryption element used to secure wireless communication and data transfer, protecting against unauthorized access, tampering, or data breaches.



02

Cloud Platform Encryption

ZKONG's cloud platform uses AES-128 encryption for secure data transmission and storage, preventing data leaks.



03

Anti-theft Location Tracking

The ESL's location tracking feature precisely identifies its position. If moved out of the designated area, an alarm or flashing light is triggered to prevent unauthorized removal.

Using Bluetooth communication with the base station, the ESL reports its location to the cloud platform for visual analysis and alerts, enabling real-time tracking and monitoring of key areas like retail stores and warehouses.



04

High Protection Structure

With an IP67-rated waterproof and dustproof design, the device operates in harsh environments. The impact-resistant casing prevents damage from drops and collisions.





05

Anti-disassembly Design

ZKONG ESLs feature an anti-disassembly mechanism, requiring specific tools to open, preventing unauthorized tampering.



06

Dual Wireless Transmission Security

ZKONG's Bluetooth 5.1 protocol supports encrypted custom deployment, ensuring secure wireless communication.

NFC uses bidirectional authentication for secure data transfer, preventing leaks during intermediate processes.

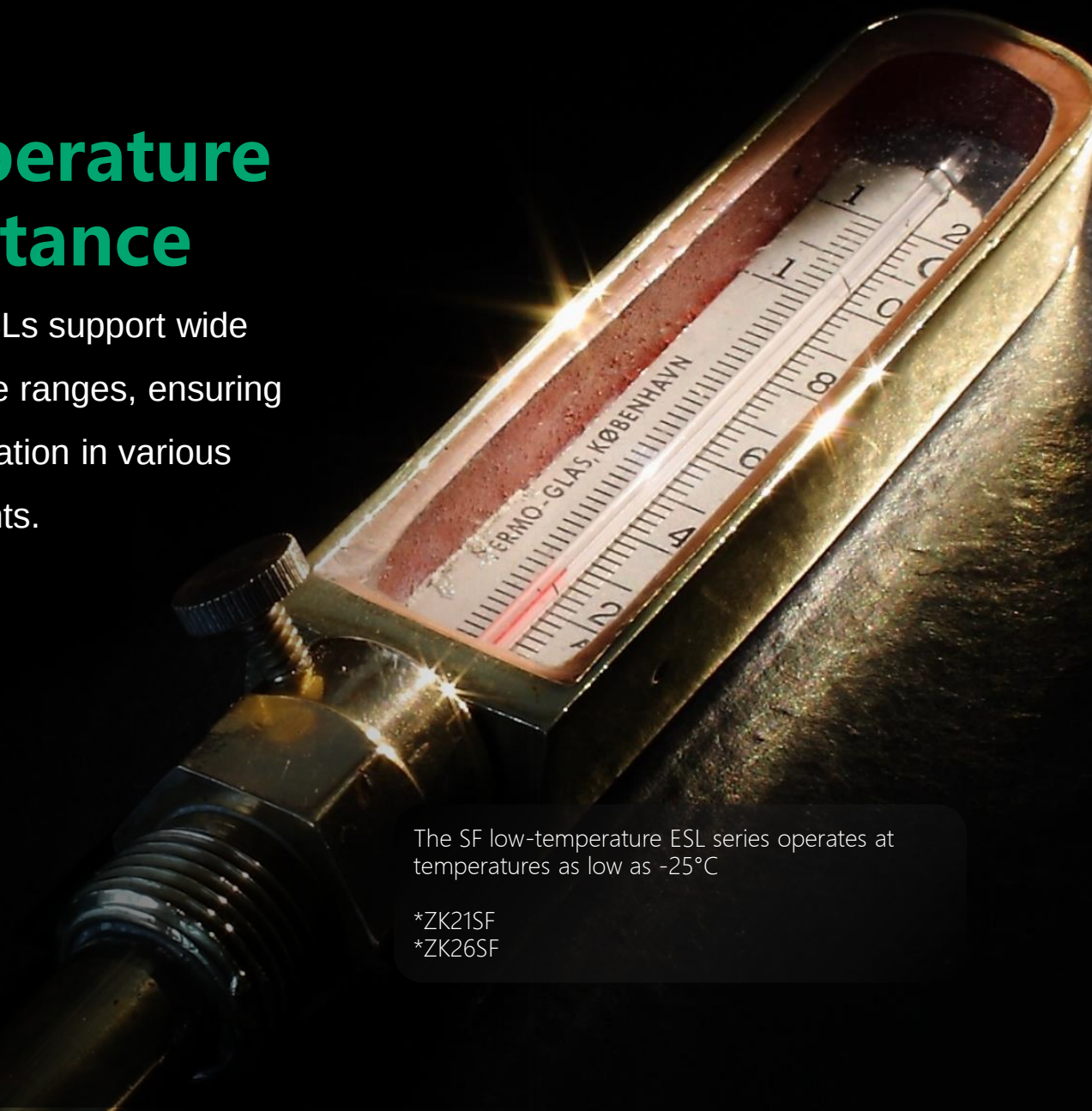




07

Temperature Resistance

ZKONG ESLs support wide temperature ranges, ensuring stable operation in various environments.



The SF low-temperature ESL series operates at temperatures as low as -25°C

*ZK21SF
*ZK26SF



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through Smart Display Solutions

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