

ZN1690E Shielding Effectiveness Monitor (Network Version) - Product Datasheet

Manufacturer: Beijing Daze Technology Co., Ltd.



1. Product Overview

Model: ZN1690E

Type: Shielding Effectiveness Monitor (Network Version)

The ZN1690E Shielding Effectiveness Monitor is designed for real-time monitoring of the shielding effectiveness of various shielding environments, such as shielding rooms and enclosures. It operates on test frequencies of 14kHz and 915MHz, specifically designed for monitoring the shielding effectiveness of rooms and related environments. The system features a small, lightweight design that is easy to carry and operate.

2. Technical Specifications

Parameter	Specifications
Test Frequency Points	14kHz, 915MHz
Shielding Effectiveness	14kHz: ≥70dB (calibrated at 30cm distance) 915MHz: ≥90dB (calibrated at 30cm distance)
Measurement Error	±5dB
MTBF	≥15,000 hours
Operating Temperature	0°C to 40°C
Operating Humidity	≤80% RH
Storage Temperature	-20°C to 60°C
Storage Humidity	≤80% RH
Power Supply	AC 220V or AC 110V, meets left-zero, right-fire wiring standard
Temperature Measurement Range	0°C to 80°C, accuracy ±2°C
Humidity Measurement Range	0% to 100%, accuracy ±2%
Fire-to-Neutral Voltage Measurement	AC 110V: 100V to 120V AC 220V: 200V to 240V, accuracy ±3%

Parameter	Specifications
Neutral-to-Ground Voltage Measurement	0V to 10V, accuracy $\pm 10\%$
Alarm Function	Triggers alarm (buzzer and indicator light) if voltage or shielding effectiveness is outside set limits
Data Storage Capacity	8,000 records, supports USB or network export
Door Alarm Time	5 minutes

3. Key Features

- Real-Time Monitoring:** Continuously monitors shielding effectiveness at 14kHz and 915MHz to ensure compliance with shielding standards.
- Multiple Alarm Functions:** The system provides alarms for fire-to-neutral and neutral-to-ground voltage, as well as shielding effectiveness. When values exceed the set thresholds, the system triggers audible and visual alarms.
- Data Storage & Export:** Stores up to 8,000 measurement records and supports data export via USB or network connection for easy analysis.
- Network Control:** Supports remote monitoring and data management through network connectivity and IP configuration.

4. Included Accessories

Item	Quantity
Measurement Devices	1 set (1 transmitter, 1 receiver)
No-Drill Adhesive Screws	8 units
M4*12 Screws	8 units
M4*30 Full Pass Spacers	8 units
Shielding Plate	1 unit
Packaging Box	1 unit
Shorting Head	1 unit
User Manual	1 copy

5. Operating Instructions

1. System Setup:

- Install the device inside the shielding room using the provided instructions, and configure the IP settings to connect the transmitter and receiver.
- Set the alarm thresholds to determine the conditions for triggering alarms for shielding effectiveness and voltage.

2. Real-Time Monitoring:

- Once powered on, the device continuously monitors the shielding effectiveness and displays the results in real-time. If the effectiveness drops below the set threshold or if voltage exceeds the acceptable range, the device triggers a buzzer and indicator light alarm.

3. Data Export:

- The system supports data export via USB or network connection. For USB export, create a folder named "ZN1690E" in the root directory of the USB drive.

6. Warranty

- **Duration:** 18 months from the date of shipment.
- **Conditions:** Covers defects and failures under normal transportation, storage, and usage conditions.

7. Product Photo



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