Ei Electronics Ei650

Ei Electronics Ei650 Standalone Smoke Detector User Manual

Model: Ei650

1. INTRODUCTION

The Ei Electronics Ei650 is a high-quality standalone smoke detector designed to provide early warning of fire in residential and similar living spaces. It features an integrated 10-year lithium battery, ensuring long-term protection without the need for frequent battery changes. This manual provides essential information for the proper installation, operation, and maintenance of your Ei650 smoke detector.

Note: While this manual is provided in English, physical manuals included with the product may be exclusively in German, as indicated by the manufacturer. For further assistance, please refer to the support section.

Image 1.1: Ei Electronics Ei650 Smoke Detectors

Key Features:

- Integrated 10-year lithium battery (3V, Panasonic).
- Loud integrated piezoelectric alarm at 85 dB(A) at 3 meters.
- Large test/hush button for easy operation.
- Hush function to temporarily silence nuisance alarms.
- Tamper-proof mounting for enhanced security.
- Dirt compensation feature to reduce false alarms.
- Reduced test volume for user comfort during testing.
- Automatic self-monitoring for continuous reliability.
- Silent Standby mode, ideal for bedrooms with no distracting LED flashing.
- VdS certified according to DIN EN 14604, compliant with DIN 14676.

- Advanced testing according to VdS 3131 (corresponds to vfdb 14-01).
- Manufactured in Europe, ensuring high quality and safety standards.

2. SAFETY INFORMATION

Please read all safety instructions carefully before installing and operating the smoke detector. Failure to follow these instructions may result in property damage, injury, or death.

- **Do not paint the smoke detector.** Paint can clog the sensing chamber and prevent the detector from operating correctly.
- **Do not disassemble the unit.** There are no user-serviceable parts inside.
- **Do not install near sources of combustion.** Avoid kitchens, garages, or areas with high humidity or dust, as these can cause nuisance alarms.
- **Test regularly.** Perform weekly tests to ensure the detector is functioning correctly.
- **Plan an escape route.** Ensure all occupants know what to do in case of a fire alarm.
- **This device is not a substitute for a fire suppression system.** It is an early warning device.

3. PACKAGE CONTENTS

Each Ei Electronics Ei650 smoke detector package typically includes:

- Ei650 Smoke Detector unit with integrated 10-year lithium battery.
- Mounting plate.
- Screws and wall plugs for installation.
- User manual (may be in German).

Image 3.1: Ei Electronics Ei650 Product Packaging

4. INSTALLATION (SETUP)

4.1 Choosing the Right Location

Proper placement of smoke detectors is crucial for effective fire detection. Install smoke detectors in all bedrooms, hallways leading to bedrooms, and on every level of your home, including the basement. For optimal protection, consider additional detectors in living rooms and other common areas.
Avoid installing detectors in:

- Kitchens, bathrooms, or garages where steam, cooking fumes, or exhaust can cause nuisance alarms.
- Near air vents, fans, or open windows where air currents might prevent smoke from reaching the detector.
- Within 1 meter (3 feet) of fluorescent lights.

Image 4.1: Recommended Installation Locations

Understanding Detector Types:

Image 4.2: Detector Type Guide

- **Smoke Alarms (Rauchwarnmelder):** React to smoke development and smoldering fires. Install in bedrooms, children's rooms, and hallways. Additionally recommended for living rooms and common areas.
- **Heat Alarms (Wärmewarnmelder):** React to temperatures above 58°C. Suitable for areas with high steam or dust, such as kitchens, bathrooms, and garages.
- **Carbon Monoxide Alarms (Kohlenmonoxidwarnmelder):** React to high CO levels in the air. For rooms where carbon-containing materials are burned (e.g., gas, coal, wood).

4.2 Mounting Instructions

1. **Prepare the Mounting Location:** Ensure the chosen location is clean and free from obstructions.
2. **Attach the Mounting Plate:** Use the provided screws and wall plugs to securely attach the mounting plate to the ceiling or wall. The mounting plate is designed to be compatible with existing drill holes for convenience.
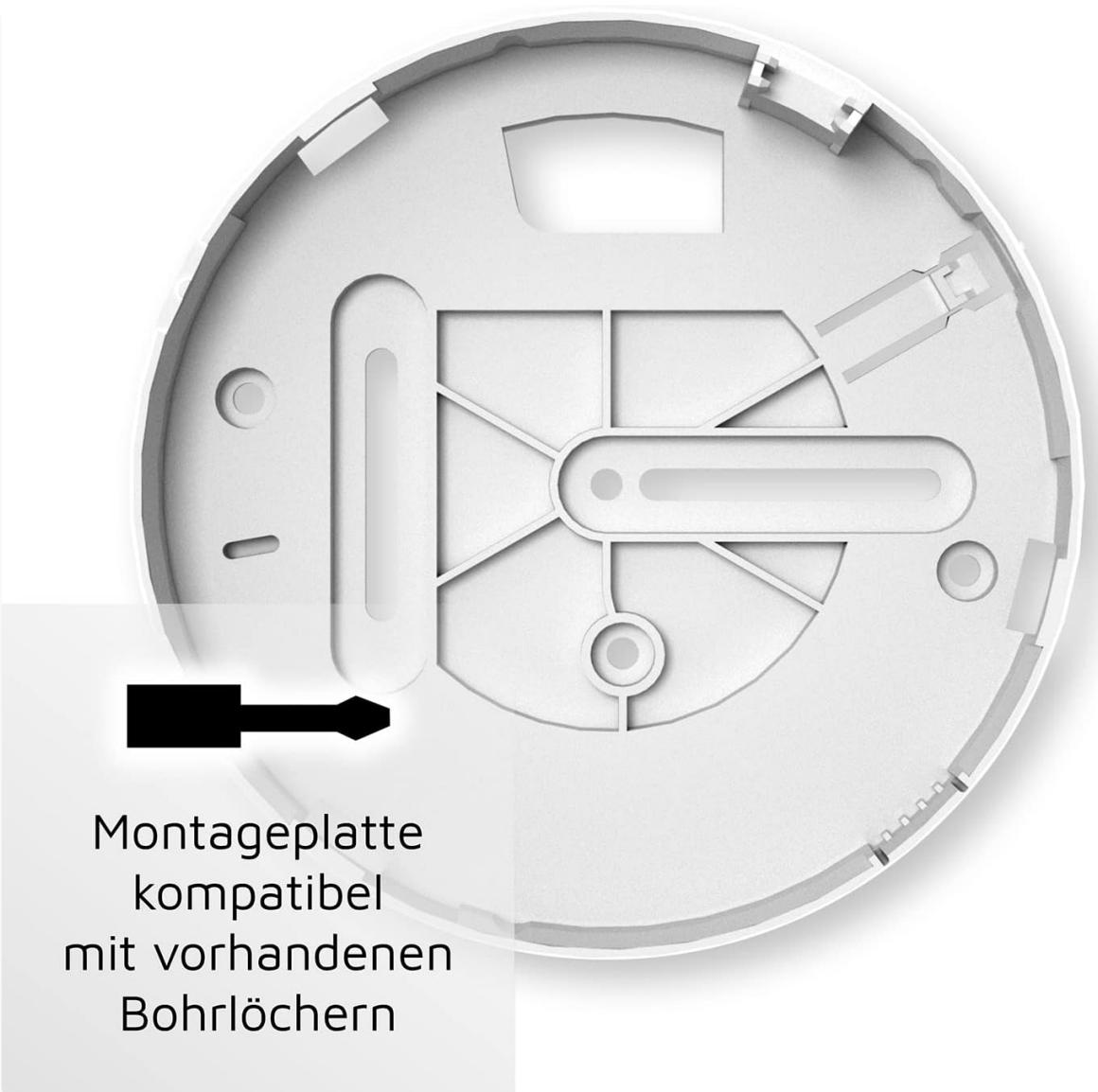
Image 4.3: Ei650 Mounting Plate

3. **Activate the Detector:** Align the smoke detector with the mounting plate and twist it clockwise until it clicks into place. This action will automatically activate the integrated 10-year lithium battery.

4. **Perform Initial Test:** After mounting, press and hold the large test/hush button for a few seconds until the alarm sounds. This confirms the detector is functioning correctly.

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5. OPERATION

5.1 Normal Operation

Once installed and activated, the Ei650 smoke detector operates continuously. It features a Silent Standby mode, meaning there are no distracting LED flashes during normal operation, making it suitable for bedrooms.

5.2 Test Function

Regular testing is essential to ensure your smoke detector is working. Press and hold the large test/hush button on the front of the detector for approximately 3-5 seconds. The alarm will sound, indicating that the detector's electronics, battery, and alarm horn are functioning. Release the button to stop the alarm.

Image 5.1: Testing the Ei650 from the Floor

5.3 Hush Function (Silence Nuisance Alarms)

If a nuisance alarm occurs (e.g., from cooking fumes), you can temporarily silence the alarm by pressing the large test/hush button. The alarm will be silenced for approximately 10 minutes. After this period, the detector will automatically reset to normal monitoring mode. If the smoke is still present, the alarm will sound again.

6. MAINTENANCE

6.1 Regular Testing

Test your smoke detector at least once a week to ensure it is operating correctly. Follow the steps outlined in Section 5.2.

6.2 Cleaning

Dust and debris can accumulate on the smoke detector and affect its performance. Clean your detector at least once a month:

- Gently vacuum the exterior of the detector using a soft brush attachment.
- Wipe the surface with a slightly damp cloth. Do not use cleaning sprays or solvents.

6.3 Battery Life

The Ei650 features an integrated 10-year lithium battery that is not user-replaceable. The detector is designed to operate for at least 10 years. After this period, the entire unit should be replaced. The detector will emit a low battery warning signal when it is nearing the end of its operational life.

TEST & STUMM

Panasonic

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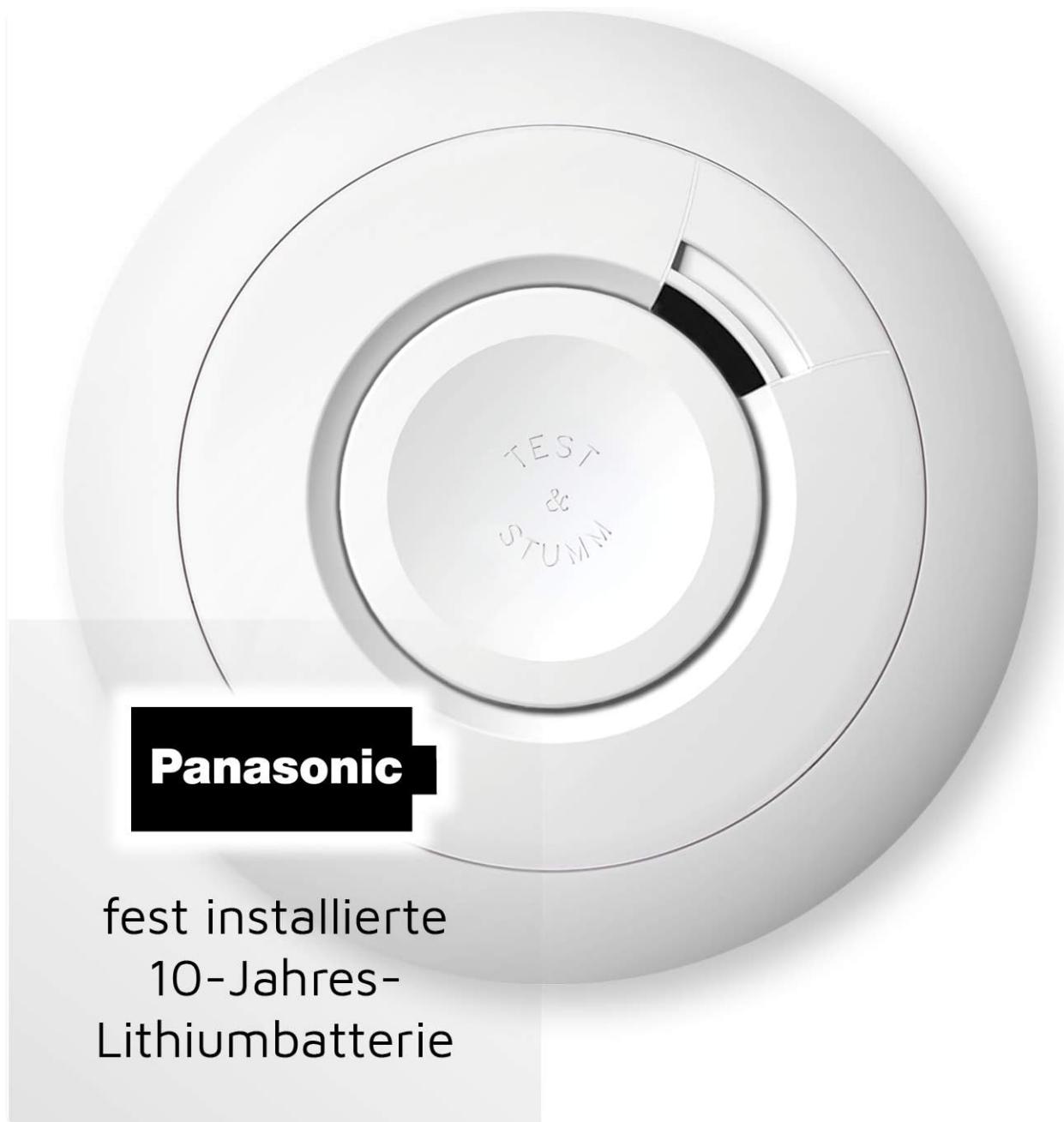
Image 6.1: Ei650 with 10-Year Panasonic Lithium Battery

7. TROUBLESHOOTING

If your Ei650 smoke detector is not functioning as expected, refer to the following common issues and solutions:

Problem	Possible Cause	Solution
Detector chirps periodically.	Low battery warning.	The integrated 10-year battery is nearing its end of life. Replace the entire smoke detector unit.
Nuisance alarm (false alarm).	Steam, cooking fumes, dust, or insects in the sensing chamber.	Press the hush button to silence the alarm temporarily. Clean the detector as described in Section 6.2. Relocate the detector if nuisance alarms persist due to environmental factors.
Detector does not alarm when tested.	Detector not activated, faulty unit, or end of life.	Ensure the detector is correctly twisted onto the mounting plate. If it still doesn't work, replace the unit.

8. SPECIFICATIONS

Feature	Detail
Model	Ei650
Sensor Type	Scattered Light (Optical)
Power Supply	Integrated 3V Lithium Battery (Panasonic)
Battery Life	At least 10 years
Acoustic Pressure	85 dB(A) at 3 meters
Reduced Test Volume	Yes
Networking Capability	No
Operational Status Indicator	Power LED on startup, then no optical display (Silent Standby)
Weight	180 g
Dimensions	115 mm diameter x 45 mm
Housing Material	White Polystyrene plastic (UL94 HB rated, self-extinguishing)
Mounting	Mounting plate with screws and wall plugs (included)
Monitoring Area	Up to 60 m²
Standards	DIN EN 14604 / CE / DIN 14676 / VdS 3131 / vfdb 14-01 / Q
Approvals	VdS G211009
Product Lifespan	10 + 1 year

9. WARRANTY

The Ei Electronics Ei650 smoke detector comes with a **5-year manufacturer's warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

Disclaimer: Any references to 'warranty' or 'manufacturer's guarantee' in product descriptions refer to guarantees provided by the respective manufacturers, not by the seller. These guarantees are typically valid within the Federal Republic of Germany. For details on the scope and content of specific warranties, please consult the manufacturer's terms, which may be provided with the product or requested directly from the manufacturer. Your statutory consumer rights are not limited by these warranties.

10. SUPPORT

For further assistance, technical support, or to report issues with your Ei Electronics Ei650 smoke detector, please refer to the official Ei Electronics website or contact their customer service department.

Official Website: Ei Electronics

Please have your model number (Ei650) and purchase information ready when contacting support.

Related Documents - Ei650

[Ei600 Series Smoke and Heat Alarms - User Manual and Technical Specifications](#)
Comprehensive user manual and technical specifications for Ei Electronics Ei600 Series smoke alarms, heat alarms, and multi-sensor alarms. Includes installation, safety, interconnection, and disposal information.

[EI Electronics Fire Safety Alarms and Accessories](#)
Discover EI Electronics' comprehensive range of advanced fire and smoke alarms, heat detectors, and carbon monoxide detectors. Featuring smart technology like AudioLINK and SmartLINK, battery backup, and easy installation with Easi-fit bases, these products ensure reliable home safety. Explore series like EI3000, EI140E, EI1600, and EI1180, along with essential accessories.

	[Ei2110e Multi-Sensor Fire Alarm Instruction Manual](#) Comprehensive instruction manual for the Ei2110e Multi-Sensor Fire Alarm by Ei Electronics, detailing installation, positioning, maintenance, and troubleshooting for residential safety.
	[Ei2110e Series Multi-Sensor Fire Alarm Instruction Manual](#) Comprehensive instruction manual for the Ei2110e Series 230V~ Multi-Sensor Fire Alarm with Rechargeable Lithium Cell Back-up, covering installation, positioning, maintenance, troubleshooting, and safety guidelines.
	[Ei Electronics Ei3024, Ei3016, Ei3014 Alarms: Instruction Manual](#) Comprehensive instruction manual for Ei Electronics Ei3024, Ei3016, and Ei3014 mains-powered fire alarms. Covers installation, user guide, testing, troubleshooting, safety, and technical specifications for optimal home fire safety.
	[Ei140e Series Smoke & Heat Alarms Instruction Manual](#) Comprehensive instruction manual for Ei140e Series 230V~ Smoke & Heat Alarms with Alkaline Battery Backup, covering installation, safety, maintenance, and troubleshooting.