

## KingOne DS1990A F5

# KingOne DS1990A F5 iButton Electronic Key Tag User Manual

## 1. INTRODUCTION

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This manual provides comprehensive instructions for the KingOne DS1990A F5 iButton electronic key tags. These durable and versatile tags are designed for various access control and security applications, offering a unique 64-bit serial number for identification. Please read this manual carefully to ensure proper use and maintenance of your iButton tags.

## 2. PRODUCT OVERVIEW

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The KingOne DS1990A F5 iButton electronic key tags are fully compatible with DS1990A-F5 specifications. Each tag features a robust construction designed for longevity and reliability in various environments.

### Key Features:

- **Compatibility:** Fully compatible with DS1990A-F5 standards.
- **Durable Construction:** Encased in 304 stainless steel, resistant to rust and corrosion.
- **Environmental Resistance:** Features high-temperature resistant resin, anti-aging properties, heat resistance, and 100% waterproof design.
- **Internal Design:** Equipped with an internal stainless steel support spring and high-quality gold-plated panels utilizing COB (Chip-on-Board) technology for high integration.
- **Unique Identification:** Each tag contains a unique 64-bit serial number (family code 01) for secure identification.
- **Fast Read Time:** Can be read by compatible systems in less than 5 milliseconds.
- **Passive Operation:** Requires no additional power source; it is powered by the collector during contact.



A set of 100 KingOne DS1990A F5 iButton electronic key tags, typically black, with a metallic contact surface.

### 3. SETUP

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The DS1990A F5 iButton tags are passive devices designed for integration with compatible iButton reader systems. No external power is required for the tags themselves, as they draw power from the reader during contact.

1. **Reader System Installation:** Ensure your iButton reader system is correctly installed and configured according to its own user manual.
2. **Tag Registration:** Depending on your access control system, you may need to register the unique 64-bit serial number of each iButton tag with the system before use. Refer to your reader system's documentation for specific registration procedures.
3. **Initial Contact:** Present the iButton tag to the reader's contact surface for initial identification and system integration.

### 4. OPERATING INSTRUCTIONS

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Operating the KingOne DS1990A F5 iButton tag is straightforward:

1. **Present the Tag:** Gently touch the metallic surface of the DS1990A F5 iButton tag to the contact points of a compatible iButton reader.
2. **Ensure Contact:** Maintain firm and full contact between the iButton and the reader for a brief moment.
3. **System Response:** The reader will identify the unique 64-bit serial number of the tag, typically within 5 milliseconds. The system will then respond according to its programming (e.g., unlock a door, log an event).

Common applications for these iButton tags include security patrols, sauna cabinet door locks, electronic locks, and access control intercom systems.

## 5. MAINTENANCE

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The DS1990A F5 iButton tags are designed for durability and require minimal maintenance to ensure optimal performance.

- **Cleaning:** Keep the metallic contact surface of the iButton clean and free from dirt, dust, or debris. Use a soft, dry cloth to wipe the surface. Avoid abrasive cleaners or harsh chemicals.
- **Storage:** Store iButton tags in a clean, dry environment when not in use.
- **Handling:** While robust, avoid exposing the tags to extreme physical impact or unnecessary bending.

## 6. TROUBLESHOOTING

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If you encounter issues with your KingOne DS1990A F5 iButton tags, consider the following troubleshooting steps:

- **Tag Not Recognized by Reader:**
  - Ensure the iButton tag's metallic contact surface is clean and free of obstructions.
  - Verify that the iButton reader is powered on and functioning correctly according to its own manual.
  - Ensure full and firm contact between the iButton tag and the reader's contact points.
  - Check if the iButton reader system is configured to accept the specific 64-bit serial number of the tag. The tag may need to be registered in the system.
- **Intermittent Reading:**
  - Clean both the iButton tag and the reader's contact surfaces thoroughly.
  - Ensure stable and consistent contact during the reading process. Avoid quick or glancing touches.
- **Physical Damage to Tag:**
  - While designed to be durable, severe physical damage (e.g., crushing, deep scratches on the contact surface) can impair functionality. Replace any visibly damaged tags.

## 7. SPECIFICATIONS

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|---------------------|--|
| <b>Model Number</b> | TM1990A-F5 (compatible with DS1990A)                               |
| <b>Chip Type</b>    | TM1990A (compatible with DS1990A)                                  |
| <b>Materials</b>    | 304 Stainless Steel, ABS Plastic, High-Temperature Resistant Resin |
| <b>Color</b>        | Black  |

|                               |                                       |
|-------------------------------|---------------------------------------|
| <b>Unique ID</b>              | 64-bit Serial Number (Family Code 01) |
| <b>Operating Voltage</b>      | 2.8 V to 6.0 V                        |
| <b>Operating Temperature</b>  | -40°C to 85°C (-40°F to 185°F)        |
| <b>Dimensions (L x W x H)</b> | 1.6 x 5.6 x 1.6 cm (16 x 56 mm)       |
| <b>Weight (per 100 units)</b> | Approximately 468 g                   |
| <b>Waterproof</b>             | Yes                                   |
| <b>Read Time</b>              | Less than 5 ms                        |

## 8. WARRANTY AND SUPPORT

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Specific warranty terms and conditions for the KingOne DS1990A F5 iButton electronic key tags may vary depending on your region and the retailer from whom the product was purchased. Please refer to the documentation provided at the time of purchase for detailed warranty information.

For technical support, product inquiries, or assistance with troubleshooting beyond the scope of this manual, please contact KingOne customer service or your authorized distributor. Contact information can typically be found on the product packaging or the official KingOne website.