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> iKey SL-86-911-FSR-USB Industrial Backlit Keyboard User Manual

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Model: SL-86-911-FSR-USB | Brand: iKey

1. INTRODUCTION

The iKey SL-86-911-FSR-USB is a rugged, compact industrial keyboard designed for demanding environments, particularly public safety applications. It combines a full 86-key functionality with an integrated Force Sensing Resistor (FSR) pointing device and a dedicated emergency key. Its completely sealed construction ensures protection against elements and spills, meeting NEMA 4X and IP65 specifications.

2. PRODUCT FEATURES

- **86-Key Functionality:** Compact layout with essential keys.
- **12 Function Keys:** Standard F1-F12 keys for various commands.
- **Integrated Backlighting:** Red LED backlit keys for visibility in low-light conditions.
- **Integrated Force Sensing Resistor (FSR) Pointing Device:** Provides precise cursor control without external mouse.
- **One-Touch Emergency Key:** A dedicated key for critical functions.
- **Rugged Construction:** Completely sealed and ruggedized, meeting NEMA 4X and IP65 standards for protection against dust, dirt, and liquids.
- **USB Connectivity:** Standard USB interface for broad compatibility.

3. PACKAGE CONTENTS

Please verify that all items are present in your package:

- iKey SL-86-911-FSR-USB Industrial Backlit Keyboard
- Integrated USB Cable

4. SETUP INSTRUCTIONS

1. **Unpack the Keyboard:** Carefully remove the keyboard from its packaging.
2. **Connect to Computer:** Plug the integrated USB cable from the keyboard into an available USB port on your computer or device.
3. **System Recognition:** Most operating systems will automatically detect and install the necessary drivers for the keyboard. No additional software installation is typically required for basic functionality.
4. **Placement:** Position the keyboard securely on a flat surface or mount it in a vehicle console using its integrated mounting holes, if applicable.

5. OPERATING INSTRUCTIONS

5.1 Keyboard Layout Overview



An overhead view of the iKey SL-86-911-FSR-USB industrial keyboard. It features a compact black design with 86 keys, including an 'EMERGENCY' key on the top left, function keys (F1-F12), a full QWERTY layout, and an integrated Force Sensing Resistor pointing device in the center bottom. The keyboard also includes dedicated keys for Caps Lock, Shift, Enter, and a lightbulb icon key for backlight control.

5.2 Special Key Functions

- **EMERGENCY Key:** Located on the top-left, this key is designed for immediate activation of a pre-programmed emergency function within compatible software or systems. Its specific action depends on the application it is used with.
- **Backlighting Control:** The keyboard features red LED backlighting. Look for a key with a lightbulb icon (typically near F10) to toggle the backlight on/off or adjust its intensity.
- **Force Sensing Resistor (FSR) Pointing Device:** The FSR is located below the spacebar. To move the cursor, apply gentle pressure to the FSR in the desired direction. Increased pressure typically results in faster cursor movement. The two keys flanking the FSR act as left and right mouse clicks.
- **Function Keys (F1-F12):** These keys perform various functions depending on the operating system or application in use. Some keys may have secondary functions accessed by pressing the 'Fn' key

simultaneously.

5.3 Rugged Design Considerations

The SL-86-911-FSR-USB is engineered for durability. Its NEMA 4X and IP65 ratings mean it is protected against dust, dirt, and water jets. This allows for use in harsh industrial or outdoor environments where standard keyboards would fail.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your iKey keyboard.

- **Cleaning:** Due to its sealed design, the keyboard can be cleaned with mild soap and water or common disinfectants. Avoid using abrasive cleaners, solvents, or harsh chemicals that could damage the silicone material. Ensure the USB connection is secure before cleaning.
- **Inspection:** Periodically inspect the keyboard and cable for any signs of damage or wear.
- **Storage:** When not in use, store the keyboard in a clean, dry environment within its specified operating temperature range.

7. TROUBLESHOOTING

If you encounter issues with your iKey keyboard, refer to the following troubleshooting steps:

- **Keyboard Not Responding:**
 - Ensure the USB cable is securely connected to both the keyboard and the computer.
 - Try connecting the keyboard to a different USB port on your computer.
 - Restart your computer.
 - Test the keyboard on another computer to rule out a system-specific issue.
- **Backlight Not Working:**
 - Press the backlight control key (lightbulb icon) to ensure it is toggled on.
 - If there are multiple backlight levels, cycle through them.
- **Force Sensing Resistor (FSR) Pointing Device Not Responding:**
 - Ensure the FSR surface is clean and free of debris.
 - Verify the keyboard is properly connected to the computer.
 - Restart the computer.
- **Keys Sticking or Unresponsive:**
 - Clean the keyboard surface as described in the Maintenance section.
 - Ensure no foreign objects are lodged around the keys.

If these steps do not resolve the issue, please contact iKey customer support for further assistance.

8. SPECIFICATIONS

Feature	Specification
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Feature	Specification
Brand	iKey
Model	SL-86-911-FSR-USB
Connectivity Technology	USB
Key Switch Material	Industrial silicone rubber
Key Switch Life	Greater than 10 million cycles
Key Switch Travel	0.055 in. (1.4mm)
Actuation Force	7.05 oz +/- 1.06 oz (200g +/- 30g)
Feedback	Tactile with mechanical snap
Operating System Compatibility	PC, Laptop, Tablet (Android mentioned, generally compatible with most OS supporting USB keyboards)
Item Weight	1.92 ounces
Product Dimensions (LxWxH)	2 x 4 x 16 inches
Color	Black
Power Source	USB Powered
Certifications	NEMA 4X, CE UL60950, FCC Part 15 Class B, IP 65
Shock Resistance	3x11 ms pulses of 50g on each of 3 axes
Cable Length	4 ft coiled (1.2 meters)
Vibration Resistance	Power Spectral Density: 0.04g/Hz, Frequency Range: 20Hz - 2 kHz, Duration of Test Per Axis: 3 hours

9. WARRANTY AND SUPPORT

For detailed warranty information, technical support, or to inquire about replacement parts, please visit the official iKey website or contact iKey customer service directly. Product support documentation and drivers may also be available on the manufacturer's website.

Manufacturer: iKey