AI-PC80

AXIXLINK NETWORK CONTROL PANEL / INPUT UNIT

Installation & Operation Manual

Proper installation of this vehicle control system is **crucial to ensuring safe and effective operation.** Failure to follow correct procedures **can result in system malfunctions, vehicle failure, electrical hazards, or even fire risks.** Only **trained professionals** with expertise in automotive electrical systems should perform the installation.

Pre-Installation Requirements

- Installation must be performed by qualified professionals with expertise in automotive electrical systems.
- Consult vehicle service manuals to prevent interference with safety-critical functions.

Installation Safety Protocols

- Contamination Prevention: Avoid introducing metal shavings into the unit; use an ESD-approved cover during nearby drilling.
- Battery Connection Sequence: Do not connect the system to the vehicle battery until all wiring is completed and verified.
- Grounding Compliance: Secure grounding to the negative battery terminal to ensure system integrity.
- Airbag System Considerations: Components and wiring must not obstruct airbag sensors or deployment zones.
- Electrical Circuit Integrity: Reference vehicle wiring diagrams to prevent disruptions to factory-installed systems.
- High-Current Wiring Standards: Use properly terminated high-current connections to mitigate overheating and fire risks.
- Wire Gauge Specifications: Power wires must be rated at 125% of maximum current and fused at the source.
- Firewall & Pass-Through Protection: Apply protective grommets or convolute tubing when routing wires through metal surfaces.
- Drilling Precautions: Inspect both sides of the surface before drilling; deburr edges and seal exterior holes using silicon seam sealer.

Post-Installation Verification

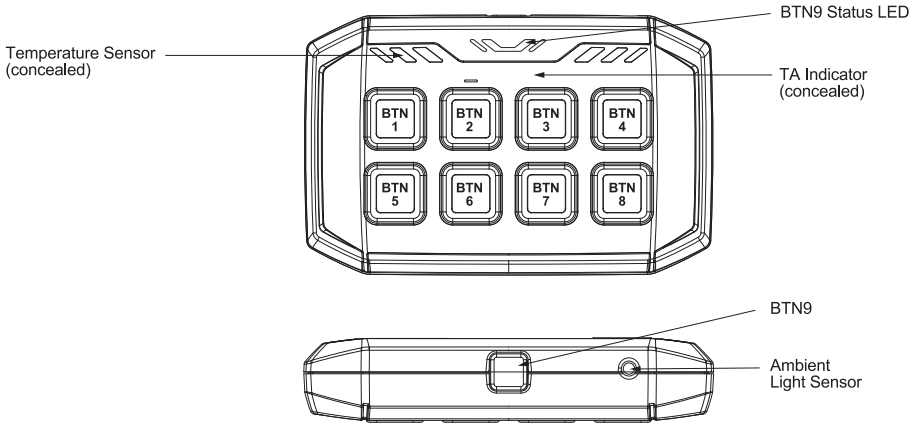
- Conduct system functionality tests to verify proper operation of lighting and warning components.
- Ensure vehicle horn, lighting, and safety features remain unaffected.
- Provide documentation to operators and maintenance personnel for future reference.
- Retain installation instructions for continued safety compliance and servicing.

Failure to comply with these safety protocols may result in vehicle malfunction, property damage, severe injury, or fire hazards. Proper installation safeguards both the vehicle operator and surrounding individuals while ensuring the optimal performance of the control system.

SPECIFICATIONS

Model	AI-PC80
Input voltage	9~16VDC
Connection	1 x RJ45 with 12V Power-IN
No. of Button	9-Tactile Button Swtich
Standby current (12V)	w/ IGN input: 40mA w/o IGN input: 0mA
LED indicator	Button 1~8: 1 x RGB Under each Button Button 9: 2 x RGB Front-top illuminated area TA: 8 x RGB concealed above top-row buttons
Temperature Sensor	Built-in
Ambient Light Sensor	Built-in
Buzzer	Built-in
No. of CAN_BUS Port	1 x RJ45 with 12V Power-IN
No. of CAN_BUS Network	1 Networks
PC connection	Not applicable unless via a main console device
Operating Temperature Range	-40°C to 60°C (-40°F to 140°F)

SYSTEM OVERVIEW



AI-PC80			
INPUT	BTN1	DIGITAL INPUT	
	BTN2	DIGITAL INPUT	
	BTN3	DIGITAL INPUT	
	BTN4	DIGITAL INPUT	
	BTN5	DIGITAL INPUT	
	BTN6	DIGITAL INPUT	
	BTN7	DIGITAL INPUT	
	BTN8	DIGITAL INPUT	
	BTN9	DIGITAL INPUT	Use as IGN input to turn ON or OFF the SYSTEM
	Temperature Sensor	ANALOGUE INPUT	
	Ambient Light Sensor	ANALOGUE INPUT	
OUTPUT	BTN1 Status LED	1 x RGB LED	
	BTN2 Status LED	1 x RGB LED	
	BTN3 Status LED	1 x RGB LED	
	BTN4 Status LED	1 x RGB LED	
	BTN5 Status LED	1 x RGB LED	
	BTN6 Status LED	1 x RGB LED	
	BTN7 Status LED	1 x RGB LED	
	BTN8 Status LED	1 x RGB LED	
	BTN9 Status LED	2 x RGB LED	
	TA Indicator LED	8 x RGB LED	
	Buzzer	Built-in	

PC Programming

All control buttons and function wires must be programmed through PC via GUI software. For more information about PC programming and Software, please refer to Software Manual or contact your sales representative.

ID SETTING

In the **AXIXLINK CAN-bus network,** each device must have a unique identifier to ensure proper communication and data routing.

- Flollow the instruction to assign a unique ID to each input device.
- Confirm that the selected ID matches the system configuration and does not conflict with other input devices on the network.

To view or modify the CAN ID of a device:

1. **Prress and hold buttons 5 to 8 simultaneously for 3 seconds.**
2. Button 5~8 backlight will turn off, and one of the buttons (1 to 4), which will light up in **blue** to indicate the current CAN ID while the other three buttons in **green.**
3. **Press the desired button (1 to 4)** to select a new ID.
4. After 5 seconds, the panel will **save the new ID and exit the setting mode automatically.**

Startup ID Indicator

Each time the system boots up, the TA indicator will light up for 3 seconds. The number of illuminated LEDs corresponds to the device's current CAN ID.

LED INDICTOR

Button Status LED

Colour	Display Pattern	Status	Action Required
-	Steady	System ON, Normal	-
Red	Short Single Flash	Output device Over / Under Voltage Protection	Eliminate possible abnormality and retry the button again.
Amber	Short Single Flash	Output device Over Current Protection	Eliminate possible abnormality and retry the button again.

CONTENTS

1.Control Panel Unit x 1 pc
2.4M RJ45 Cable x 1 pc
3.Pictogram Decal x 1 set