



Packing List and Wiring Instructions

1. Netbell-2-2Bel Packing List

- ____ Netbell-2 Bell Controller (01-910-00014) (1)
- ____ Bell Kit (01-910-00044) (2)
- ____ Netbell Setting Instructions
- ____ Packing Lists and Wiring Instructions



Safety Instructions

- If the device is powered by PoE, **DO NOT** use the 12VDC power supply. If the device is not powered via an Ethernet cable, use only the power adapter provided by Linortek that comes with your order. Other power supplies may damage or destroy the device, affect its behavior, or induce noise.
- Avoid placing the cables where people may trip over them or where they may be exposed to mechanical pressure as this may damage them.
- This device is for indoor use only! **NOT FOR OUTDOOR USE!**
- Do **NOT** install the device in rooms with high humidity. Do **NOT** immerse the device in water and do **NOT** spill or pour liquids of any kind onto or into the device.
- Do **NOT** install the device in surroundings at risk for explosions. Do **NOT** use the device if you smell gas or other potentially explosive fumes.
- Do **NOT** use the device during thunderstorms. Lightning striking the power grid may cause electric shocks.
- Do **NOT** remove the device's power supply (Ethernet cable when using PoE, power adapter when not using PoE) when the RED LED is blinking and the GREEN LED is on (called Bootload state); a firmware update is ongoing. Cutting off the device's power during a firmware update (red LED blinking, green LED on) will damage the firmware and render the SERVER inoperative. In such cases, it will need to be returned to factory for resetting.

Product Manuals & Resources

To access the complete product manual, wiring instructions, and tutorial videos regarding the product setup and configuration, please visit <https://bit.ly/01-910-00027> and click the **Manuals & Resources** tab. Alternatively, scan the QR code with your smartphone to access the documentation.



2. Wiring Instructions

There are 2 relay (bell) outputs (Dry Contact, 1-Form-A relay 48VAC@8A Max) for the Netbell-2 and are simply numbered OUTPUTS "1" and "2". These relays are Normally Open and you can use it to control up to 2 bells directly. Please **NOTE**: Unless specifically stated, this product is **NOT** designed to switch line voltage devices. To control device that operate at line voltages the user **MUST** install and intermediary device such as a relay

Netbell-2 Wiring Sample

Netbell Wiring Diagram



1) Bell Connection:

- Mount the pre-wired bell kit at the location you would like to have your bell. You can extend the power cable of the bell if needed, maximum of 250 feet with 18AWG cable and 500 feet with 16AWG.
- Connect positive wire (+) of the power supply to the positive (+) red wire of the bell. Connect the negative wire (-) of power supply (marked with white stripe) to the Netbell-2 relay output terminal block, connect the black (-) wire of the bell to the other side of the Netbell-2 relay output terminal block.
- Plug the bell power supply to a suitable AC outlet.

2) Network Connection for Netbell-2:

- Plug the Ethernet cable into the NET connector. This device is **POE enabled (Please note: this device can only work on IEEE 802.3af or 802.3at standard. Please check your network switch specifications before plugging the device in to prevent potential damage to your device.)**, the GREEN/Boot LED on the device and the "Connection" LED on the Ethernet connector side will come on if you connect to a POE network switch and a 100MHz network is available, otherwise it will remain off and the "Activity" LED should start blinking indicating network activity. If the device is powered on at this point, you do **NOT** need to use the 12VDC power supply.

3) Power Connection for Netbell-2:

- Connect the 12VDC power supply to a suitable AC outlet and plug the barrel connector into the SERVER at the location labelled POWER. **CAUTION: WHEN YOU USE POE NETWORK SWITCH, DO NOT USE THE 12VDC POWER SUPPLY TO POWER THE SERVER AT THE SAME TIME, IT WILL DAMAGE THE BOARD.**
- At this point the GREEN/Boot LED should come on and start flashing indicating the SERVER is operating and is in the "Bootload Mode". This mode allows the user to update the server software that is used on the unit. After about 5 seconds, the GREEN LED will go off and the RED LED will start blinking once per second indicating the SERVER is operating in "Server Mode" and is accessible on a network utilizing TCP/IP protocols.

4) Install the controller on 35mm DIN rails if desired (DIN Rail Mount Clip is not included, available for purchase at <https://www.linortek.com/store/z-accessories/>).

5) For instructions of accessing the Netbell Server and adding schedules to ring the bell, please follow the **Netbell Setting Instructions**.