

Quick setup instructions for the 2-Wire-LAN system

Please also use our videos at: <https://www.alphatechtechnologies.cz/en/products/2-wire-lan-ethernet-poe-over-2-wires/2-wire-lan-convertor-ethernet-and-poe-over-2-wires>

- Review the contents for any damages. When in doubt, don't use the devices.
- To avoid problems with warranty, always use the power supply adapter 48VDC, which is part of delivery. Never use other type of power supply adapter.
- Beware of the reverse DC power supply adapter polarity: Never reverse the polarity of the DC power supply adapter when connecting it to the 2-Wire-LAN device. If you reverse the polarity, the warranty is void/invalid. Never connect the converter to a PoE port of PoE switch.
- Make sure the legacy 2-wire cable follows the correct + and – polarity as shown on the 2-Wire-LAN device. If you reverse the polarity, the warranty is void/invalid.
- Do a dry run first: Take out the two (or more) 2-Wire LAN devices, the 48VDC power supply, the primary power connector, a short pair of power wires, and a small screwdriver.

Installation

- Connect the green connector with a pair of power wires. Make sure that plus and minus are not switched. There is no correct plus and minus for this. It's more important not to cross the wires when connecting them.
- Plug both connectors into the two 2-Wire-LAN devices.
- Connect the power supply unit with one of the two devices.
- Now connect the main power connector with the power supply adapter and the power.



It is important to plug the power to the 2-Wire-LAN system as the last
When the power is plugged on, the devices are in automatic coupling mode and don't need to be explicitly coupled!

- As soon as the power LED and TWP LED of both devices are on, the two devices are connected.
 - You can now connect two devices to the LAN interfaces for testing. This could be a switch or your router on the one hand, or a laptop or other LAN device on the other hand. Since the system also supplies PoE power according to IEEE 802.3af/at, the connected device could also, for example, be an IP camera, an IP phone, or an IP intercom.
- The lighting of the PoE LED shows that a LAN device is connected. The blinking of the PoE and TWP LEDs shows that data is flowing.



Both devices connected with each other.

Both devices connected with LAN. Data is flowing.

- To connect a third (or additional) device (that hasn't been in operation yet), disconnect the power from the power supply unit
- Remove the green connector of one of the two devices
- Plug the green connector into the third (or additional) device
- Plug-in the power of the power supply adapter again
- The third (or additional) device is now also connected



You are now ready to complete the actual installation in your space.

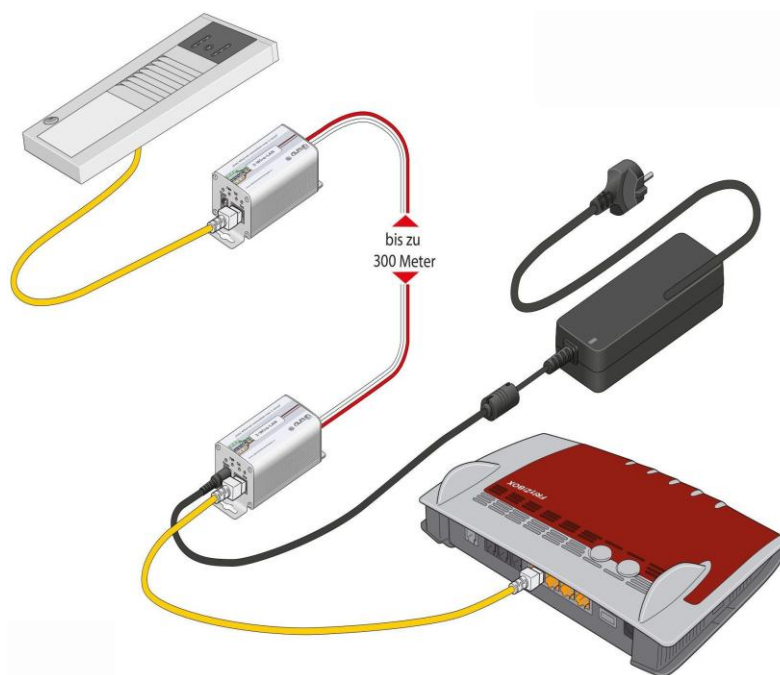
Decouple Devices

Devices may lose their configuration. This happens when the devices are connected too long with switched plus/minus connections or when contact is faulty for an extended, sustained period of time. You might also remove a device from the connection configuration in order to set up a new configuration.

- Connect the desired device to the 48VDC power supply adapter and connect this to the power
- Press the Grp button (with a paper clip) for twelve seconds
- Release it: You will notice that all LEDs go out and then come on again. If this isn't the case, you didn't hold it down long enough
- Disconnect the device from the power

Couple Devices

- Connect one of the existing devices with this decoupled device
- Now connect one of the two with the power supply unit and power
- Hold down the Grp button of the decoupled device for one second
- Hold down the Grp button of the existing device for one second
- Both devices are now in coupling mode. After about ten seconds, they will have "found" each other. If the TWP LEDs of both devices are lit up, this means the coupling was successful.



IMPORTANT: it doesn't matter where the power is fed in. Simply connect the power supply adapter to any one of the existing 2-Wire-LAN devices and the others will automatically be supplied. This will generally be the case for the device that is installed at the start. It isn't absolutely necessary though.

