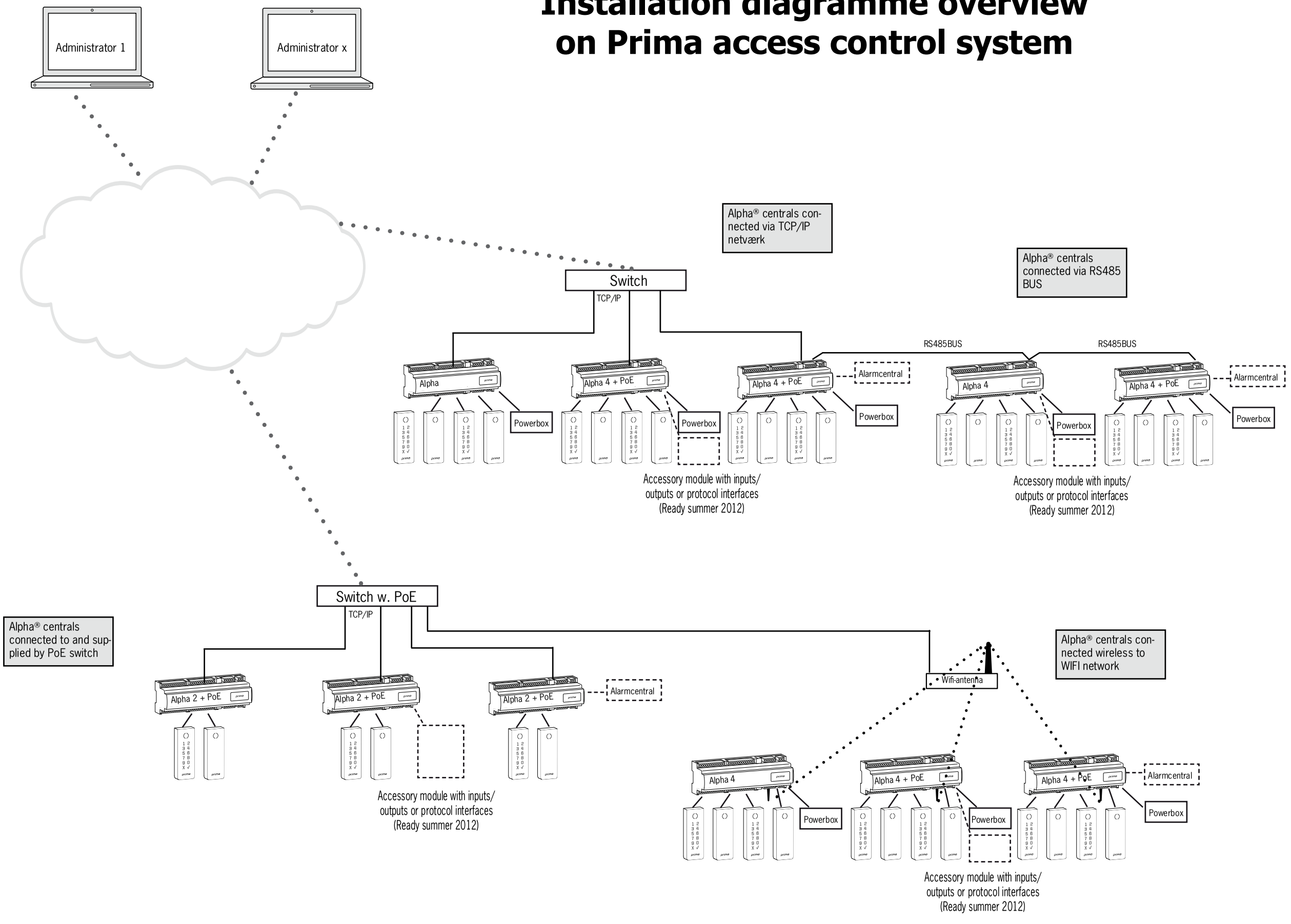
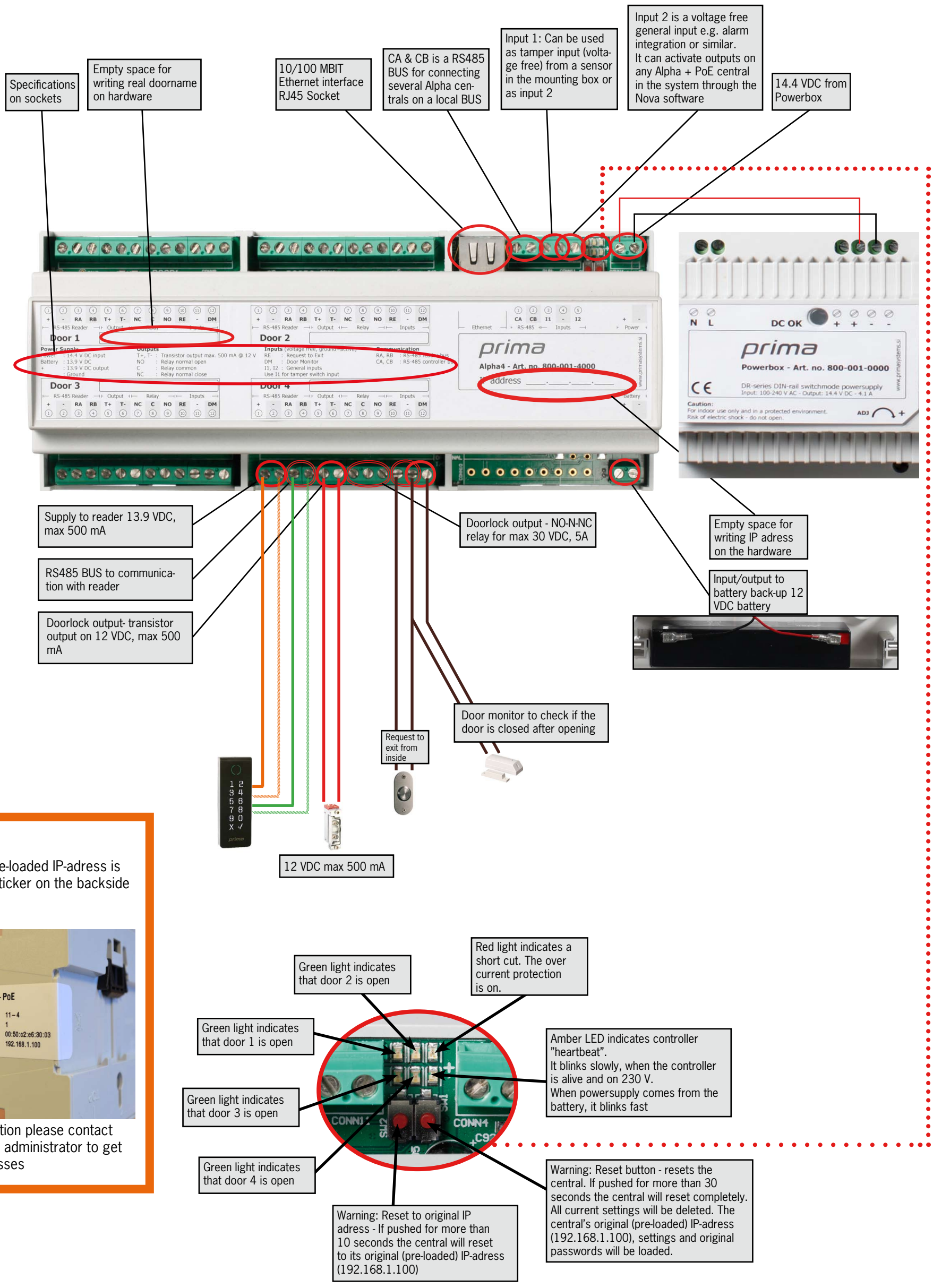
Installation diagramme overview on Prima access control system



Installation diagramme for Alpha® 2 and 4 door centrals

(incl. installation of a "standard" Nexus® reader)



Important:

The central's pre-loaded IP-adress is written on the sticker on the backside of the central

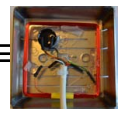
BEFORE installation please contact your IT/network administrator to get usable IP-addresses

Installation diagramme for Alpha® 2 or 4 + PoE centrals

(only extra functions are shown on the central)
+ installation of 2 readers in one cable and a Nexus® P reader with external antenna

Reader housing (art. no. 802-000-4100) to be mounted inside the door.

The external antenna can be mounted behind a
- Stainless steel shield (art. no 802-000-4103)
- Reader rills in a stainless steel doorstation panel (art. no. 802-000-4102)
- In a PES06 –> 20 & a PDS01 doorstation from TCS (art. no. 802-000-4101)
- In an info-module from for example Siedle or similar doorstations (art. no. 802-000-4103)

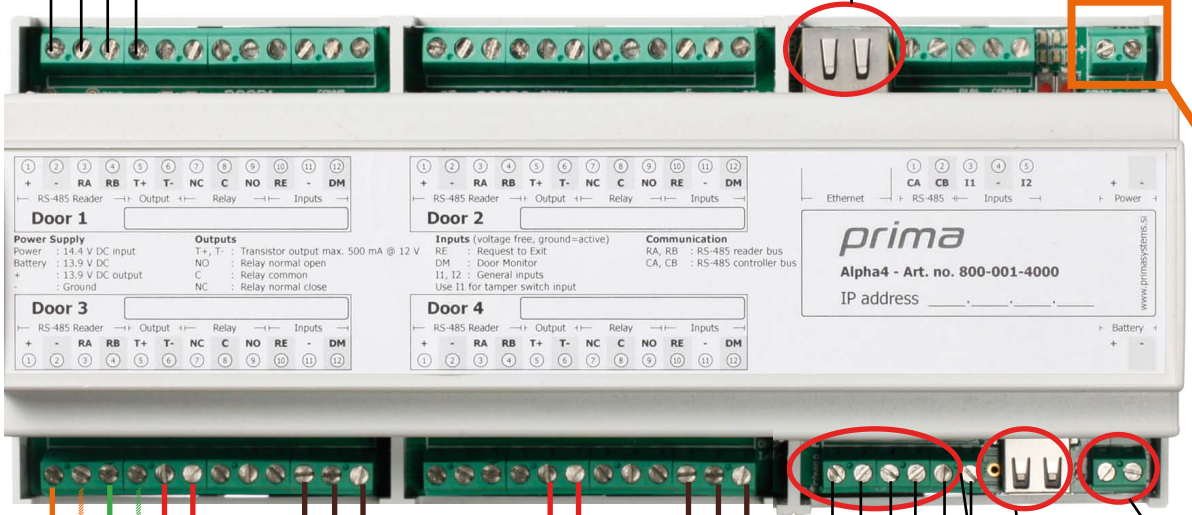


External antenna with diodes and buzzer in some variants)

Important:

The antenna is delivered with 3 m cable, which may not be extended.

10/100 MBit Ethernet interface with PoE - RJ 45 socket. The Alpha central, connected readers, and locks can be supplied through PoE from the switch.



Important:

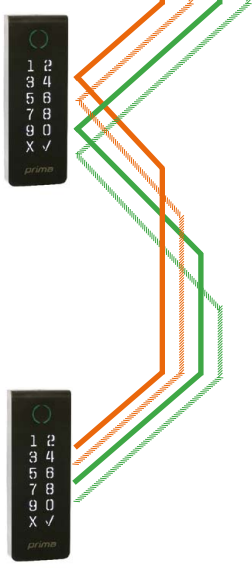
According to the PoE + IEEE 802.3at standard, the central is only supplied with 25W in total. You need to be aware that 25 W only have the capacity to supply a single Alpha central with 4 readers (in/out passage) at 2 locks (doors), as long as the locks' power consumption is less than 15 W. If the conditions are met, a 25 W PoE supply can allow the central to keep doors open for a longer period of time, e.g. the opening hours of a firm.

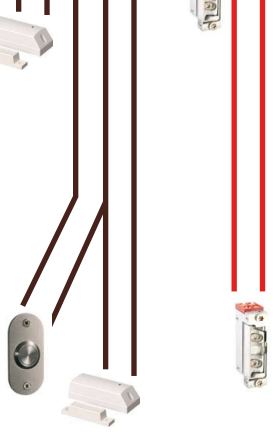
Important:

If the Alpha + PoE is not supplied by a PoE switch it has to be supplied by a 14.4 VDC Powerbox. This article is bought as an accessory to the Alpha + PoE central.

One cable with 10 wires[1]

One cable with 4 wires[1]





In case of PoE supply and the switch is backed up by a central UPS a local battery backup is not necessary in case of power failure.

The Alpha + PoE versions are equipped with an USB socket.
This socket allows for use of:
- A Wifi antenna (available in 1. qty 2012) enabling the central to be connected to a wireless LAN network
- To take a back-up of the system set-up and memory with a USB memory stick
- Accessory moduls which extend the functions of the Alpha central extensively. Examples of accessory moduls are extra input module, extra output module and I/O combined module (All available in 2. qty 2012). These modules makes it possible to have for example elevator control, multi-alarmzone integration, parking control, and more.

Relay 1 & 2 are controlled by the Nova Software (version available in 1. qty 2012). The relays can for example be used for alarm bypassing, alarm activating or similar.

The relays can through the Nova software be triggered by an input on any Alpha central in the system, by an event in the software, an action of a user and so on.

Important:

The readers has to be connected in serie on the CA & CB BUS in order for it to work

Important:

If the readers have the same MODBUS adress on the same RS485 BUS it will give a search error in the software. Then connect only one of the readers and change the MODBUS adress with the software.

Note 1: If you want to have more doors on the same cable, you need more wires to accommodate for the functions at the door. Alternatively, if you do not need doormonitor and/or exit call button, you can reduce the number of wires. The cable diameters and the distances mentioned in the cable specification on pages 1 is no longer applicable due to higher consumption. Diameters and distances has to be calculated and measured on the place of installation.