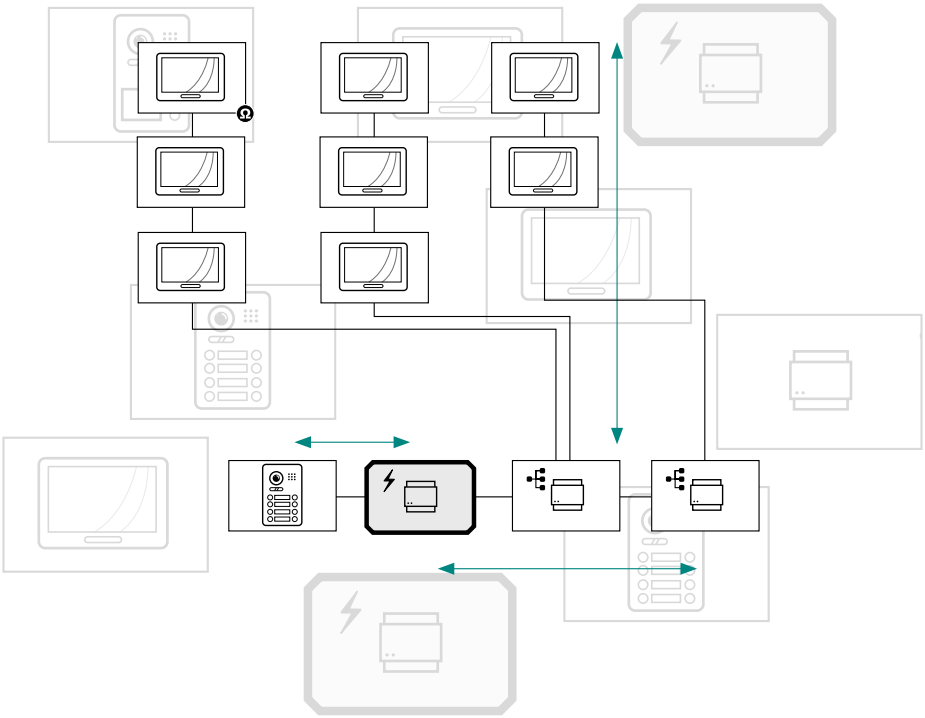
entrya®
Plug & play
home automation



Facila Installation Guide 2017

Index

Preface

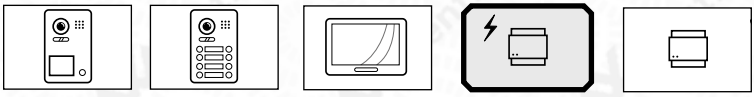
The FACILA-system is designed with a focus on usability. A two-wiresystem that is not sensible to polarity, guarantees a quick and easy installation.

The multi-use of our monitors ensures an answer for every installation. Call forwarding, videosurveillance, mobile forwarding, standard and panic-lock activations and controlling gate operators, FACILA has quick solutions for every case.

This guide is a supplement to the manuals of the monitors, doorstations and accessories and does not replace the actual manuals!

Team Entrya!

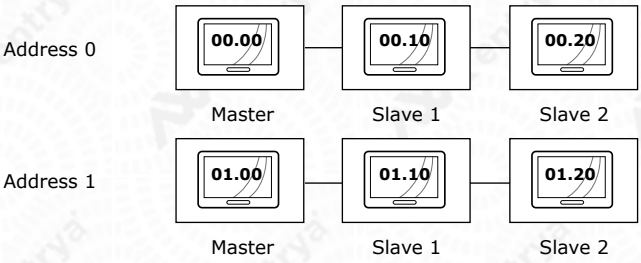
Legend



Notions

BUS system
A 'BUS' is a signalline which has multiple devices connnected parallel. The purpose is to diminish the number of connections between devices. In a FACILA-BUS the data-, audio-, power- and videosignals have been integrated on two wires. When a connected device on a BUS wants to communicate with another device on the same BUS, it can only do so when the signalline is not occupied. The device will put the address of the device it searches on the BUS so that it is clear which device is requested. Giving each device a correct address is therefore very important.

Model Master/Slave
In a Master/Slave setup one device controls all other. The Master receives the call from the doorstations and redistributes the signals to possible Slave-monitors with the same address. An installation has at least one Master-monitor.



Schematic overview of a Master/Slave setup

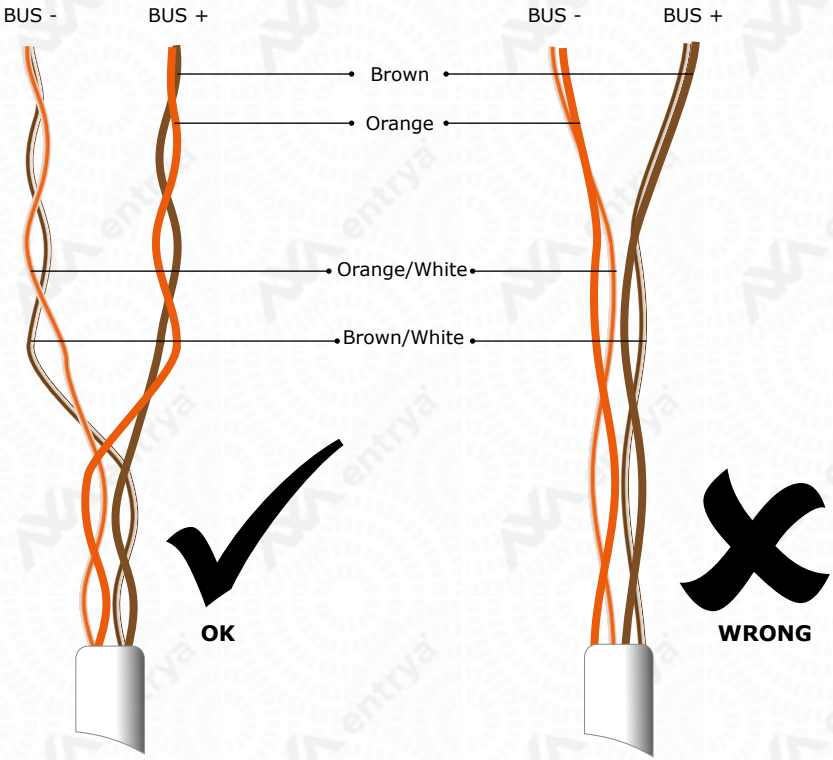
The Master/Slave setup is default because it groupes several monitors to one address.
This makes it possible to have up to 4 monitors for each installation (1x Master and 3x Slaves).

Terminating resistor
A terminating resistor will close the BUS-signalline. This closure ensure that reflections of signals are minimized. When a BUS-line is not closed, interferences in video, audio and data-communication may occur which will disturb the functioning of the system.

This 'impedance switch' Ω is switched on at the monitor and distributor which are last on the BUS-line.

Double twisted cable
Connect half-colored wires and full-colored wired to twist twisted wires.

Use the brown and orange pair on CAT5-cable!



Important!
Never connect the shielding a cable!

Limiting risks when connection a lock
Use the lock connections of a FACILA doorstation and lockmodule only for entrances which do not impose a securitythreat when an unauthorized entry occurs.

Important!
Entrya BVBA does not guarantee any burglary resistance.

Cabling requirements VILLA system

The maximum length of cabling is limited. The use of other cables then subscribed could influence the maximum length of cabling and cause interferences.

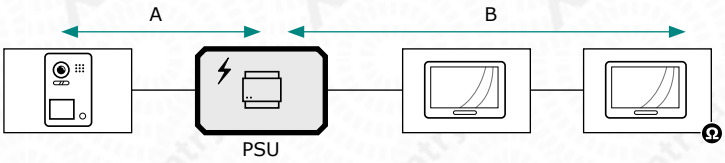
Topology: Cascade network

In a serial network all devices are connected on one BUS-line. This makes a serial network usable for new building projects. This network ensures less cabling then a star network but 'local' problems will influence the entire network.

Up to 2 monitors in the installation	**A**	**B**
UTP Cat5	40m	80m
2 wires without shielding (2x 0.75mm²) **	30m	50m
Twisted pair without shielding (2x 0.75mm²)	60m	100m
Twisted pair without shielding (2x 1mm²)	80m	120m

Upward of 2 monitors in the installation	**A**	**B**
Twisted pair without shielding (2x 0.75mm²)	60m	40m
Twisted pair without shielding (2x 1mm²)	80m	60m

A: Maximum cable length between PSU and door station
B: Maximum cable lenght between PSU and the last monitor



**
Non-twisted cable is sensible to disturbances! Interferences could occur in video and audio when cabling is placed to close to other electromagnetic fields (ex. microwave, television, computer,..).

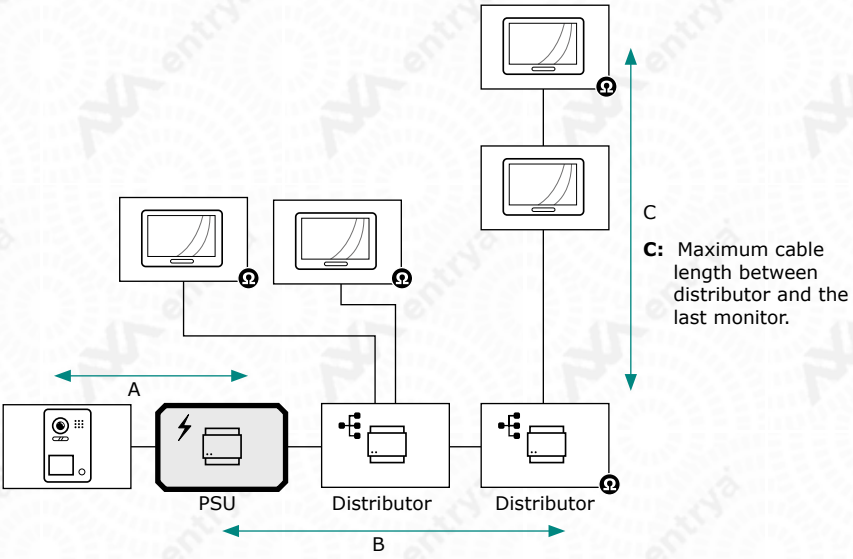
Twisted cable is the only advised cable!

Important!
Switch terminating resistance ON on accessories and monitors with this symbol.

Topology: Star network

In a star network all devices communicate through distributors. The advantage of such a star topology is that 'local' problems are contained and do not influence the entire network. Star networks are very adequate for renovating projects where an existing intercom has to be exchanged. A star network requires more cabling than a serial network.

Less than 20 monitors in the installation	**A**	**B**	**C**
Twisted pair without shielding (2x 0.75mm²)	60m	60m	30m
Twisted pair without shielding (2x 1mm²)	80m	80m	40m



C: Maximum cable length between distributor and the last monitor.

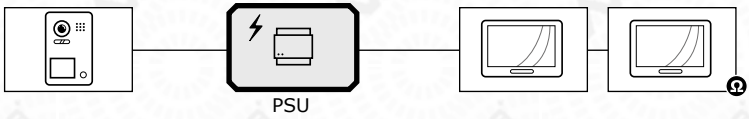
A: Maximum cable length between PSU and door station

B: Maximum cable length between PSU and the last distributor

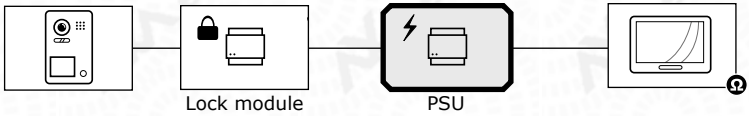
Important!
Switch terminating resistance ON on accessories and monitors with this symbol.

Example schematics

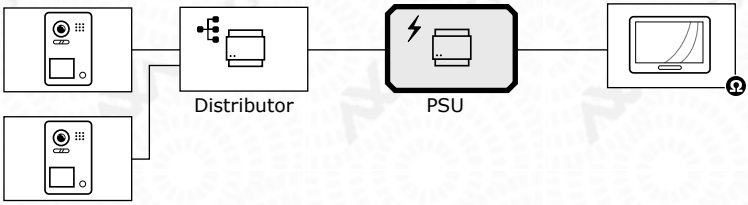
Basic schematic



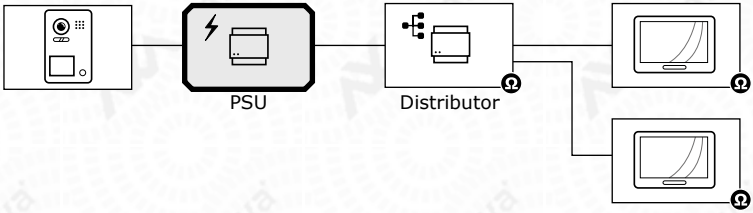
Basic schematic with lock module



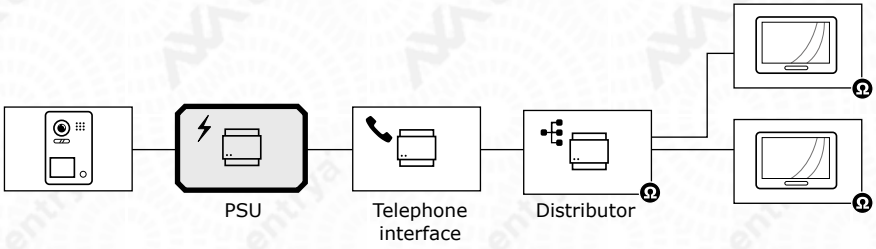
Multiple door stations with a distributor



Multiple monitors with a distributor

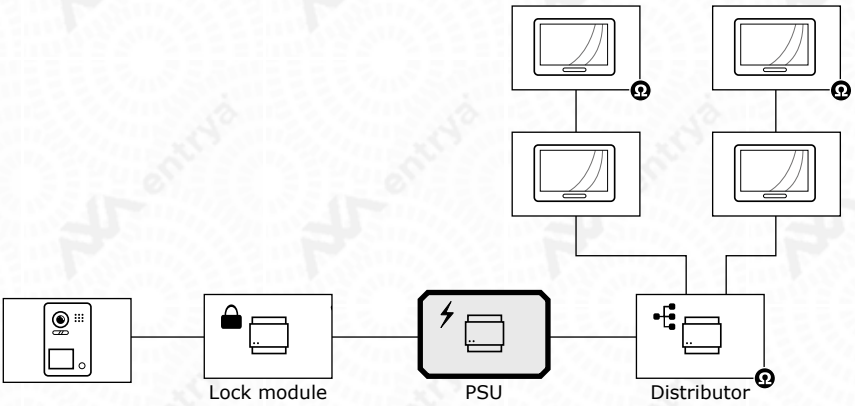


Multiple monitors with a distributor in combination with a telephone-interface

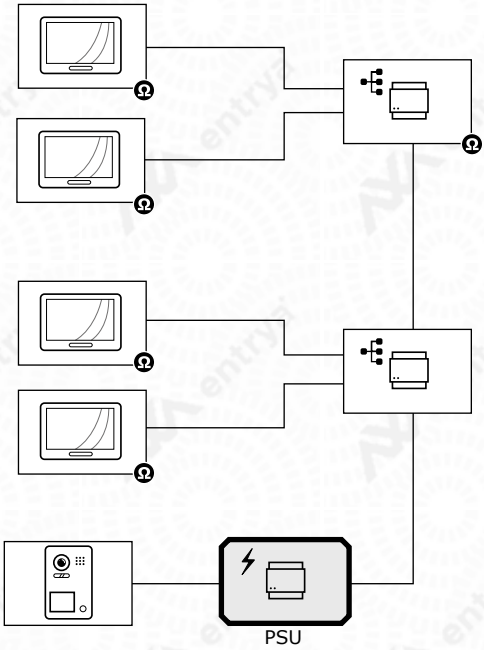


Important!
The telephone interface has address 15, no other device may have this address!

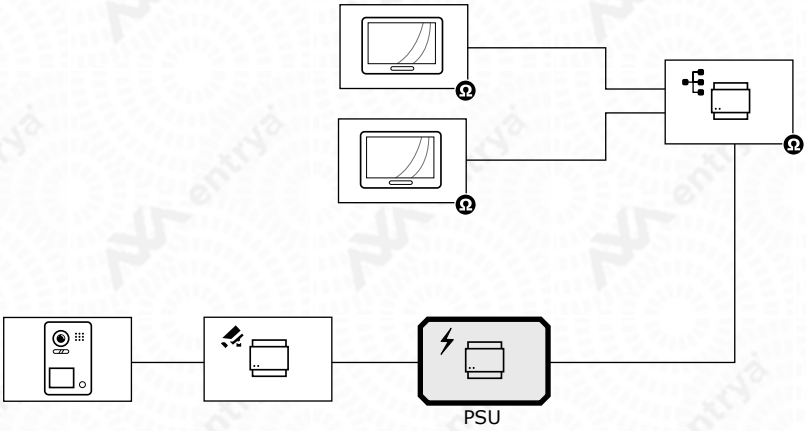
Multiple monitors with distributor in combination with a lock module



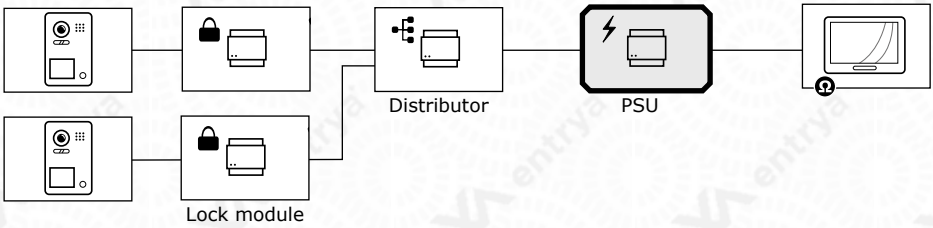
Multiple monitors with multiple distributors



Camera module



Multiple door stations and a lock module with a distributor



Cabling requirements APPARTMENT system

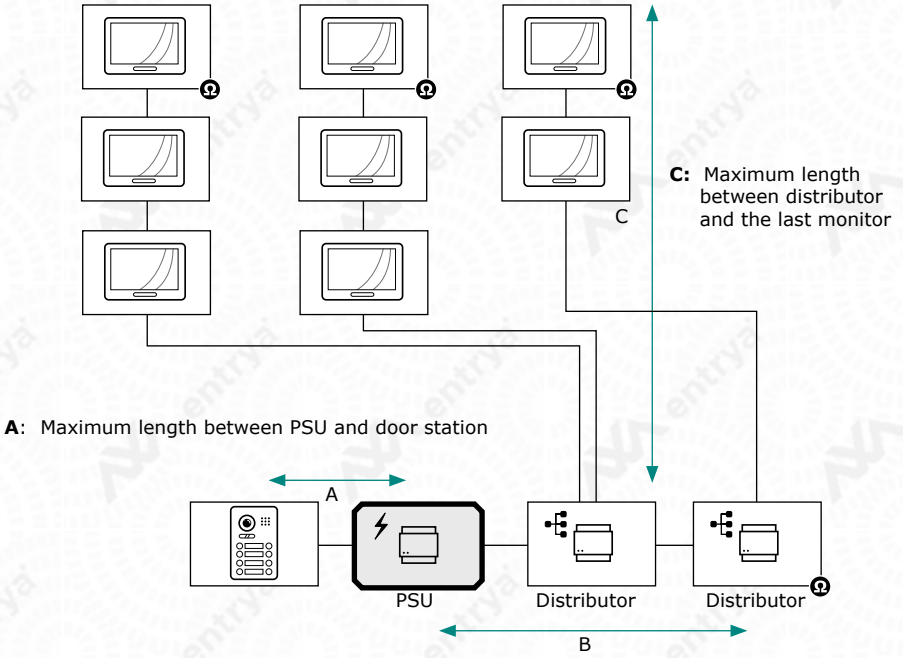
The maximum length of cabling is limited. The use of other cables then subscribed could influence the maximum length of cabling and cause interferences.

Topology: Star network

In a star network all devices communicate through distributors. The advantage of such a star topology is that 'local' problems are contained and do not influence the entire network. Star networks are very adequate for renovating projects where an existing intercom has to be exchanged. A star network requires more cabling than a serial network.

Up to 20 monitors in the installation	**A**	**B**	**C**
Twisted pair without shielding (2x 0.75mm²)	60m	60m	30m
Twisted pair without shielding (2x 1mm²)	80m	80m	40m

Upward from 20 monitors in the installation	**A**	**B**	**C**
Twisted pair without shielding (2x 1mm²)	70m	30m	20m
Twisted pair without shielding (2x 1.5mm²)	70m	50m	30m



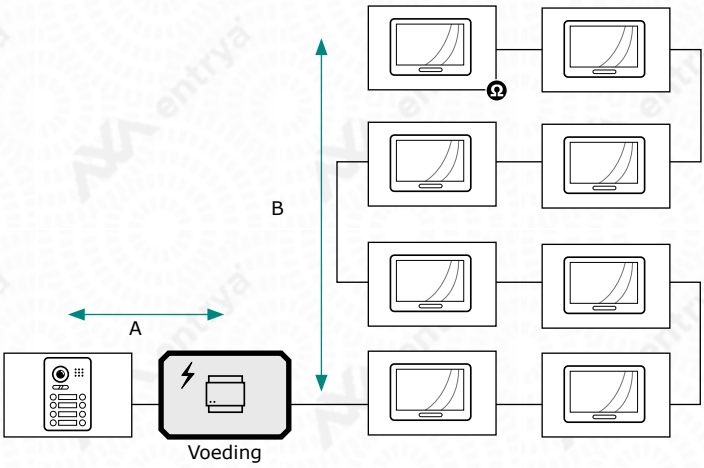
Important!
Switch terminating resistance ON on accessories and monitors with this symbol.

Topology: Cascade netwrk

In een serienetwerk zijn alle posten met elkaar verbonden op één Bus-lijn. Een serienetwerk is dan ook geschikt voor nieuwbouwprojecten. Een serienetwerk vereist minder kabels dan een sternetwerk maar bij problemen wordt het volledige netwerk verstoord.

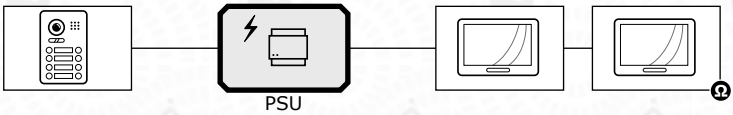
Less than 16 monitors in the installation	**A**	**B**
Twisted pair without shielding (2x 0.75mm²)	60m	40m
Twisted pair without shielding (2x 1mm²)	80m	60m

A: Maximum length between PSU and door station
B: Maximum length between PSU and the last monitor

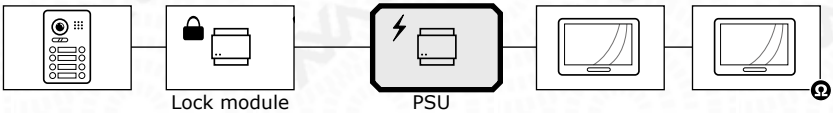


Example schematics

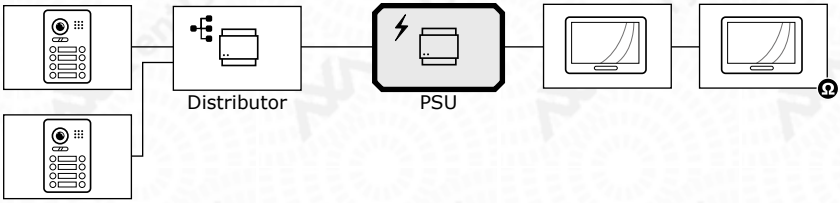
Basic schematic



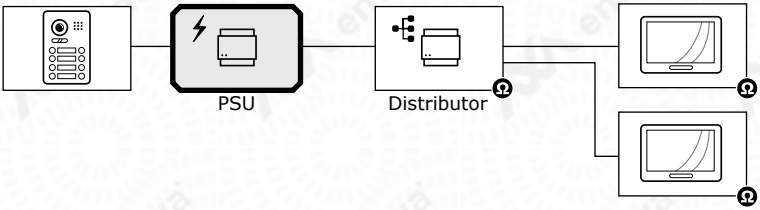
Basic schematic with lock module



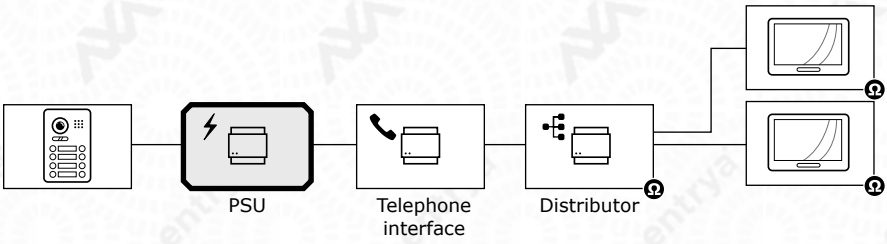
Multiple door stations with distributor



Multiple monitors with distributor

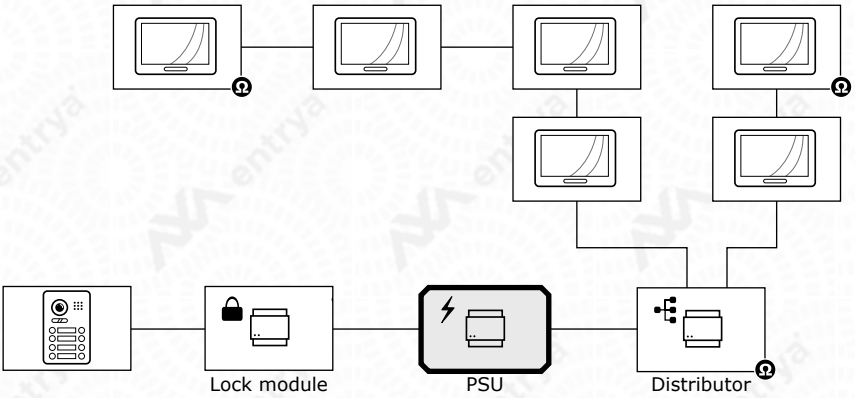


Multiple monitors with a telephone interface and a distributor

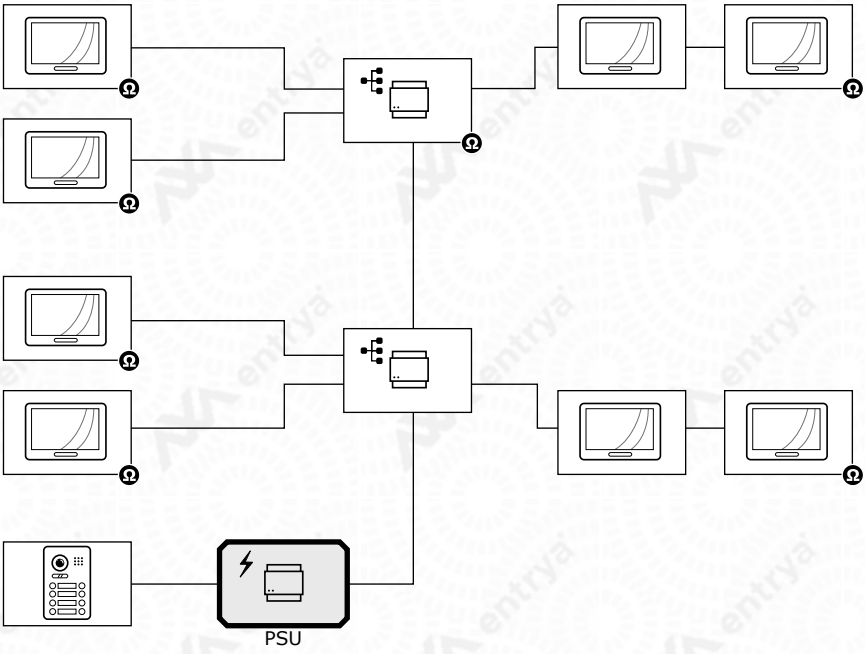


Important!
The telephone interface has address 15, no other device may have this address!

Multiple monitors with a lock module and a distributor

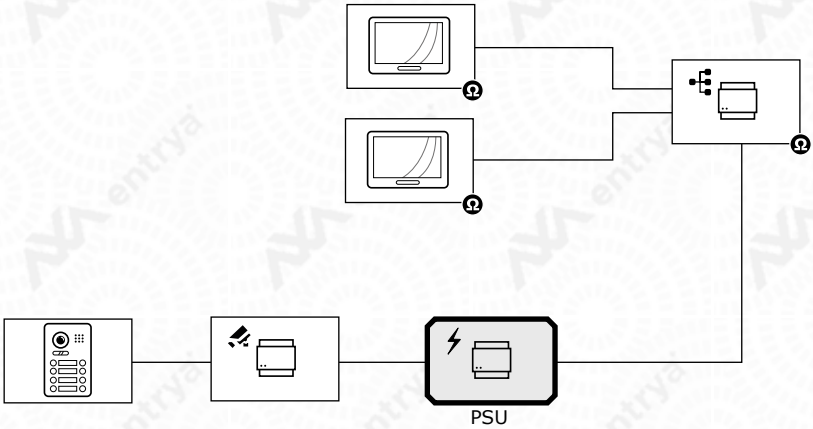


Multiple monitors with multiple distributors

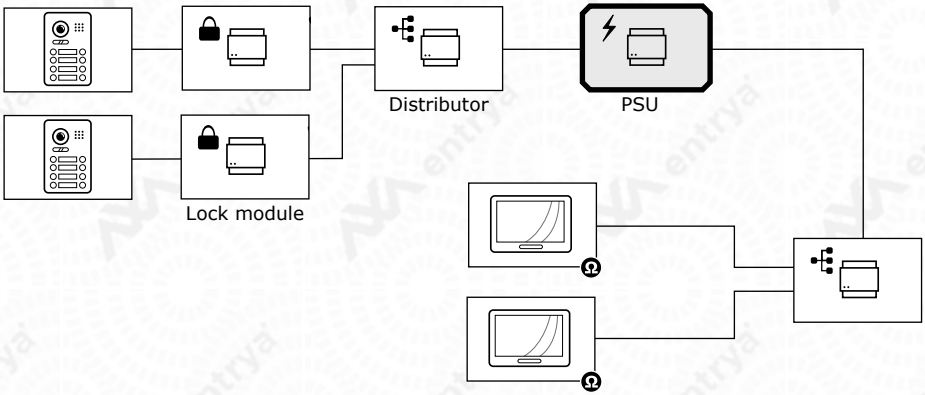


Important!
Switch terminating resistance ON on accessories and monitors with this symbol.

Camera module



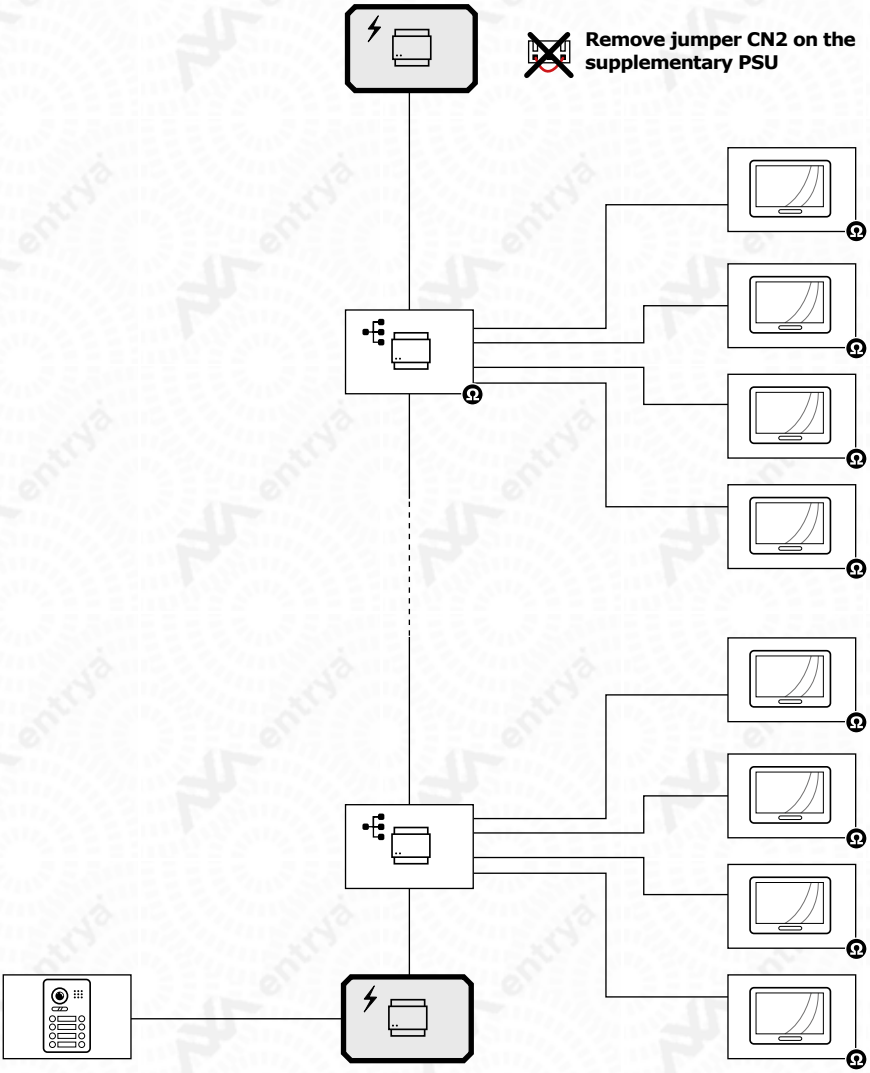
Multiple door stations with lock module and distributors



Using a supplementary power supply

When on one signal line **more than 8 monitors** are installed, a supplementary PSU is advised. This extra PSU is installed at the end of the BUS-line **to guarantee that the required tension does not go below 23V DC**.

Before installing a supplementary PSU it is important that one measures the tension on the BUS when a monitor is communicating with a door station. Define polarity of the wires and respect the polarity when installing;
connect the positive from the supplementary PSU with the positive from the BUS-line.



Overview installation codes FP070 / FP035

Description	Code	FP070	FP035
Restore factory settings	2412	✓	✓
Erase Memory	2499	✓	✓
Update Firmware	2810	✓	
User Interface Update	2811	✓	
Update Tunes	2812	✓	
Format SD-card	2813	✓	
Send adjusted namelist to other monitors	2910	✓	
Configure monitor as Master	8000	✓	✓
Configure monitor as Slave 1-3	8001-8003	✓	✓
Configure Guard monitor (8004) or deactivated (8005)	8004-8005	✓	✓
Video active on slaves when calling (8006) or deactivated (8007)	8006-8007	✓	✓
Date format: MM//DD/YYYY (8008) of DD/MM/YYYY (8009)	8008-8009	✓	✓
Lock output as Normally Open (8010) or Normally Closed (8011)	8010-8011	✓	✓
Time format: 12-Hr (8012) or 24-Hr (8013)	8012-8013	✓	✓
Unlocking menu active (8014) or deactivated (8015)	8014-8015	✓	✓
Monitor not available when BUS is active (8016) or available (8017)	8016-8017	✓	✓
Videoformat: Automatic (8018), PAL (8019) or NTSC (8020)	8018-8020	✓	✓
Unlocking time between 1-9 s	8021-8029		✓
Indicating light will light up in red, green, blue, yellow or purple when calling	8040-8044	✓	
Indicating light will blink red, green, blue, yellow, purple or white when calling	8045-8050	✓	
Indicating light will blink red, green, blue, yellow, purple or white in standby	8051-8056	✓	
Indicating light is deactived	8057	✓	
Automatic recording is active (8300) or deactivated (8301)	8300-8301	✓	
Manual recording possible (8302) or deactivated (8303)	8302-8303	✓	
Unlocking time between 1-99 seconds	8401-8499	✓	
Warning during unlocking (9006: OFF, 9007: ON)	9006-9007	✓	
Tune Type (9008: Auto, 9009: Default, 9010: Reserved)	9008-9010	✓	
Start namelist from 0 (9011) or 1 (9012)	9011-9012	✓	
Touchscreen tap sounds active (9013) or deactivated (9014)	9013-9014	✓	
Intercomcall possible (9015) or deactivated (9016)	9015-9016	✓	
Configure sensibility of the touch screen	9017-9019	✓	
Hearing Aid function (T-coil) (Not available)	9020-9021		
Zoomfactor when using fisheye-objective	9030-9039	✓	

Frequently Asked Questions

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