

# vingtor STENTOFON

## Flowire Converter FCDC1/FCDC2

### Getting Started

## 1 Flowire Connection

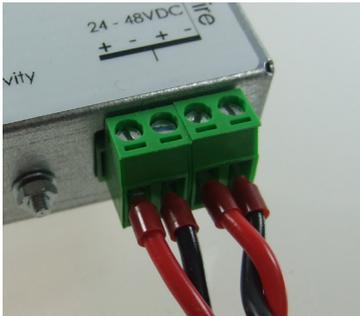
The Flowire Converter (FCDC1 & FCDC2) must be connected to the Flowire network star configuration using twisted cabling as shown. The red wire is the positive supply voltage while the black wire is the negative supply voltage. The power supply voltage used depends on the type of devices in the star configuration.

**48 VDC PSU** : When using Flowire with Vingtor-Stentofon IP intercoms and access panels.

**24 VDC PSU** : When using Flowire with Vingtor-Stentofon Ex intercoms and access panels. (FCDC2 is particularly suited to this.)

For the sake of convenience, the converter is equipped with two connections to the star configuration.

① *Please note that these two connections are equivalent.*



For the first converter unit on the configuration, one connection can be used to connect the power supply, while the other can be used to connect to the actual star configuration. The power supply may be connected at any point on the star configuration, i.e. it can be connected to any of the Flowire Converters on the star configuration.

## 2 Ethernet Connection

Ethernet is connected via the RJ45 port. This supplies 10/100 Mbps Ethernet (in and out) and power out over spare pairs (**FCDC1 only**). The power on the spare pairs is the same voltage as the one supplied to the converter. Hence, at least 40 volts must be applied to the converter in order to ensure stable operation when powering IP intercom stations directly through their Ethernet ports. If the station has a 24V input, the current can be reduced to 24 volts by separating the spare pairs from the CAT cable and connecting it to this input.



- ① *DO NOT power the Flowire Converter through the RJ45 port. Trying to do so with a PoE injector will damage the converter.*
- ① *DO NOT use Gigabit switch with FCDC1 as this will damage the switch*
- ① *The RJ45 port on FCDC1 is NOT a PoE-compatible output but DC voltage on spare pairs which is present at all times. It MUST NOT be connected to any equipment that can be damaged by this voltage.*

## 3 Indicator LEDs

The Flowire Converter is equipped with three green LEDs. These indicate the status of the power, the connection/link to Flowire, and whether data is transmitted on Flowire or not.



- LED1 - Power:** This LED is lit when the converter is receiving enough power for powering up.
- LED2 - Link:** This LED is lit when the converter recognizes one or more converters on the Flowire star configuration.
- LED3 - Activity:** This LED flashes when data is transmitted to or from the converter.

## 4 Password Reset Button

Pressing and holding this button for more than 15 seconds will reset the NMK password to the default: **HomePlugAV0123**

In addition to resetting the NMK password to its default, the procedure will also set the following factory defaults:

- DHCP will be turned on
- IGMP snooping querier will be turned on



## 5 Example: Star Configuration Flowire Network

