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1 Introduction

The ComfoConnect LAN C device makes the connection between the home ventilation unit and the 'Zehnder ComfoControl' App. The ComfoConnect LAN C can be combined with the ComfoAir Q, Comfort Vent Q or the Aeris NEXT and corresponding App (for the installer and end-user). The ComfoConnect LAN C can control one ventilation unit via the App.

The ComfoConnect LAN C can be wall-mounted, with the power supply coming from the ventilation unit via the 4-core ComfoNet cable.

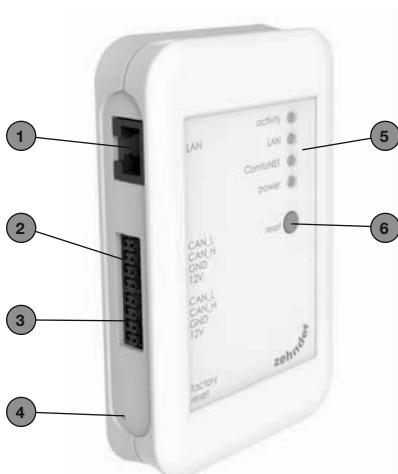| #	Description
1	ComfoNet interface Protocol over a combined serial bus with a +12V DC power supply.
2	Ventilation unit Provides e.g. The + 12V power supply for all the nodes (components) of the ComfoNet.
3	ComfoConnect LAN C
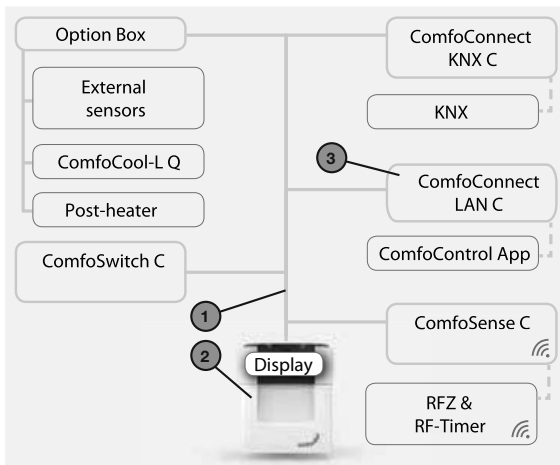
2   Using the ComfoConnect LAN C

#	Description
1	LAN connection (RJ45) to network.
2	1st connection to the ComfoNet network (e.g. ventilation unit, ComfoSense C or ComfoSwitch C), incl. +12V DC power supply of the ventilation unit.
3[1]	2nd connection to the ComfoNet network (e.g. ventilation unit, ComfoSense C or ComfoSwitch C), incl. +12V DC power supply of the ventilation unit.
4[2]	Factory reset button for implementing the factory settings.
5	Status of indicator LEDs.
6	Reset button for restart.

[1] The 2nd connection can be used as the so-called 'feed-through/chain' loop-through connection that includes the +12V DC power supply for the other nodes on the ComfoNet.
[2] The 'Factory reset' button is only accessible by inserting a pin or paper clip into the little hole.

2.1 LED Status indicator during normal use

LED	STATUS	Description
activity	On	ComfoConnect LAN C is connected to the Internet for remote access via the App.
activity	Flashing	App activity.
LAN	Off	LAN cable not connected or DHCP server not found.
LAN	On	Connected to LAN.
LAN	Flashing	LAN activity.
ComfoNet	On	Connected to ComfoNet.
ComfoNet	Flashes 1x per second	Busy with connection to ComfoNet.
ComfoNet	Flashes 8x per second	There is a problem with the connection to the ComfoNet and/or the cabling.
power	On	Connection with the +12V DC power supply.

2.2 Resetting

The Reset button can be used for a forced restart of the ComfoConnect LAN C in which all the parameter settings in the software remain unchanged.

2.3 Factory reset

With the 'Factory reset' button all the software parameters of the ComfoConnect LAN C can be put back to the original factory settings. Simply press the Factory reset button for a few seconds until the Power LED starts flashing.

2.4 Malfunction checks

1. Check for a Network and Internet connection.
2. Check the connections to the ventilation unit and the corresponding ComfoNet cables. Ensure the correct colour coding of the connecting cable matches the bus port connection. They must correspond with each other.

ComfoNet connection	Colour coding (cable & connection)
CAN_L	White
CAN_H	Yellow
GND	Black
12V	Red

Check whether the +12V DC voltage is present.

3 Technical specifications

Electrical	
Nominal input voltage	+12V DC
Input voltage range	12V DC +/- 20%
Nominal input current	0.06 A
Electrical separation	1500 V AC (60 sec)
Nominal power consumption	0.72 W
Maximum power consumption	1.00 W
Maximum 'loop-through' current	3.20 A
Environmental	
Operating temperature	-20°C to +60°C
Storage and transportation temperature	-40°C to +80°C
Humidity	< 95%
Level of protection	IP classification 30 Contamination level PD3 (boiler room)
Combustibility classification of connectors	UL 94 V0
Combustibility classification of housing	UL 94 HB (< 20J)
Combustibility classification of PC board	UL 94 V0
Housing material	ABS
Weight	90 grams
Standard	
Safety	EN60950-1
Electromagnetic Compatibility (EMC)	CISPR22, EN61000-6-3, EN61000-6-1, EN50491-5-1, EN50491-5-2
Environmental and surroundings requirements	RoHS, REACH. WEEE
Software	
LAN	IPv4 with DHCP or AUTOIP

Includes a Matrix SSLTM Security software licence from INSIDE Secure

4   Installation

#	Description
1	ComfoConnect LAN C wall mounting.
2	LAN RJ45 cable connection to network (Router) or wifi router of the ComfoConnect LAN Kit C.
3	1st connection to the ComfoNet (e.g. ventilation unit), incl. +12V DC power supply of the ventilation unit.
4	2nd connection/loop-through to the ComfoNet (e.g. ComfoSense C or ComfoSwitch C), incl, +12V DC loop-through power supply of the ventilation unit.
5	Cable lead-through and pull relief incl. wall fixture.
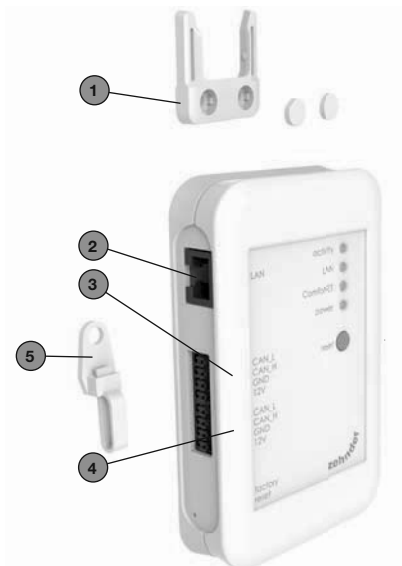
Disconnect the power from the ventilation unit before installing the equipment. Always observe the local safety regulations.

The cable requirements for the ComfoNet interface are as follows:
■ Maximum length: 50m;
■ Number of cores: 2x2 (twisted pair);
■ Screening: not screened;
■ Core: rigid (solid) wires for insertion elements;
■ Colours: compatible with connectors
■ Minimum Ø: 0.2mm^2;
■ Optimum: DIN VDE 0281: J-Y(St)Y 2 x 2 x 0.6;
■ Maximum Ø: 1.5mm^2.

The network requirements are:
■ DHCP server active;
■ Automatic IP address release active.

1. Mount the ComfoConnect LAN C on the wall. Preferably near the ventilation unit.
2. Connect the Internet (LAN; RJ45, CAT 5 UTP) communication cable to the ComfoConnect LAN C.
3. Connect the combined bus Power cable on the ComfoNet interface to one of the two bus ports on the ComfoConnect LAN C.
4. Connect a second combined bus Power cable on the ComfoNet interface to the other available bus port on the ComfoConnect LAN C, for looping through to any other equipment in the network, such as a ComfoSense C or a ComfoSwitch C.
5. Mount the pull relief to the wall and use it as a cable opening for all cables from and to the ComfoConnect LAN C. This prevents the cables from the equipment being pulled.
6. Connect the combined bus Power cable on the ComfoNet interface to one of the two bus ports on the ventilation unit.
7. Turn on the power.

5   Commissioning
Download the 'Zehnder ComfoControl' App from the Apple App Store or Google Play Store.

Follow the instructions in the App to establish a connection with the ComfoConnect LAN C. But first the device on which the App is to run must be connected with the same network as the ComfoConnect LAN C.

Further settings for the ComfoConnect LAN C, such as enable/block secure remote access, can be found in the App.

6   Maintenance
Remove dust regularly from the unit with a dry duster.

7   Guarantee
The unit is covered by the manufacturer's warranty for a period of 24 months following installation, and up to a maximum of 30 months following the date of manufacture.

The warranty is rendered invalid if:
■ installation of the unit was not carried out in accordance with the proper instructions;
■ defects have occurred due to incorrect connection, incompetent use or contamination of the system;
■ spare parts used that were not originally supplied by the manufacturer, or repairs done by unauthorised persons.

The costs associated with dismantling and reinstalling at the location are not covered by the warranty. This also applies to normal wear and tear. The manufacturer retains the right to change and/or reconfigure its products at any time without any obligation to alter previously delivered products.