

# Zehnder EDT2

Installation, Service and User Manual

**always the best climate**



### Safety and environmental guidelines

In accordance with the regulations in force, the installation of the equipment must only be carried out by technically qualified personnel authorised for this type of appliance and work.

Do not use the appliance for any purpose other than that for which it is designed. This appliance can only be used in combination with the CLD-283 electronic controller which is part of the EASY 5.0 system.



Before any intervention, make sure that the appliance connected to the Zehnder EDT2 Wall-Mounted Touchscreen User Controller is de-energised and wait for the moving parts of the ventilation unit to come to a complete stop before opening the doors, panels and access hatches.

The appliance can only be switched on and off via the proximity switch.

The safety and control equipment of the appliance connected to the Zehnder EDT2 Wall-Mounted Touchscreen User Controller must not be removed, short-circuited or disabled.

All waste produced must be handled in accordance with the regulations in force.

We accept no liability for damage resulting from misuse of the equipment, unauthorised repair or modification or failure to observe these instructions.

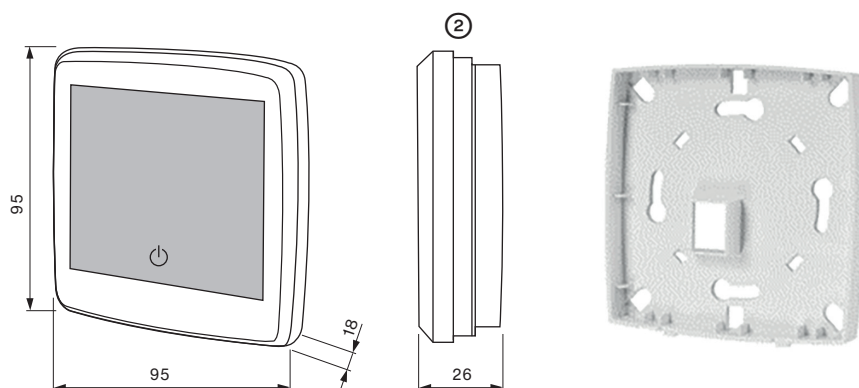
Reminder and definition of the pictograms used	
	Danger and warning : - Operation or situation that may be hazardous - Warning that there are instructions to be observed
	Reading the documentation that accompanies the product is mandatory.

## 1. Technical specifications

### 1.1. General

<b>Supply voltage</b>	24 V AC / DC
<b>Consumption</b>	60mA
<b>Protection class</b>	IP30
<b>Ambient humidity</b>	10...90% (without condensation)
<b>Indoor temperature</b>	0, 50 °C (operation) -20, 70 °C (storage)
<b>Connections</b>	Spring terminal strip (max. 1.5 mm <sup>2</sup> – AWG 16)
<b>Maximum distance between Zehnder EDT2 and CLD-283 controller</b>	100 m max.
<b>Display</b>	LCD with LED backlight
<b>Dimensions (Width x Height x Depth)</b>	95 x 95 x 23 / 26 mm (see diagram)
<b>Weight (with packaging)</b>	0.17kg
<b>Installation</b>	Recessed or surface-mounted on the wall according to mounting plate
<b>Material (housing and pedestal)</b>	Polycarbonate (PC)
<b>Fire resistance (material)</b>	UL 94 V-0
<b>Housing colour</b>	RAL 9003

### 1.2. Dimensions



## 2. Receipt of the equipment

### 2.1. Checks upon receipt

Check the condition of the packaging and the equipment upon receipt. In the event of damage, immediately note down precise and complete details on the carrier's delivery note.

### 2.2. Unpacking

When unpacking the equipment, check the following points:

- Presence of total number of packages
- Presence of the required accessories (support plate)

After unpacking the material, the waste must be disposed of in accordance with the standards in force. No packaging should be released into the environment.

### 2.3. Storage

The material should be stored in a sheltered, dry place as the packaging is not suitable for storage in bad weather.











### 2.4. Supply limit

The Zehnder EDT2 Wall-Mounted Touchscreen User Controller is delivered alone.

Depending on the type of support (wall, partition, breeze block, brick, etc.), it is necessary to provide suitable fixings (dowels) and screws of the appropriate length and diameter (diameter < 4 mm with recommended Phillips head).

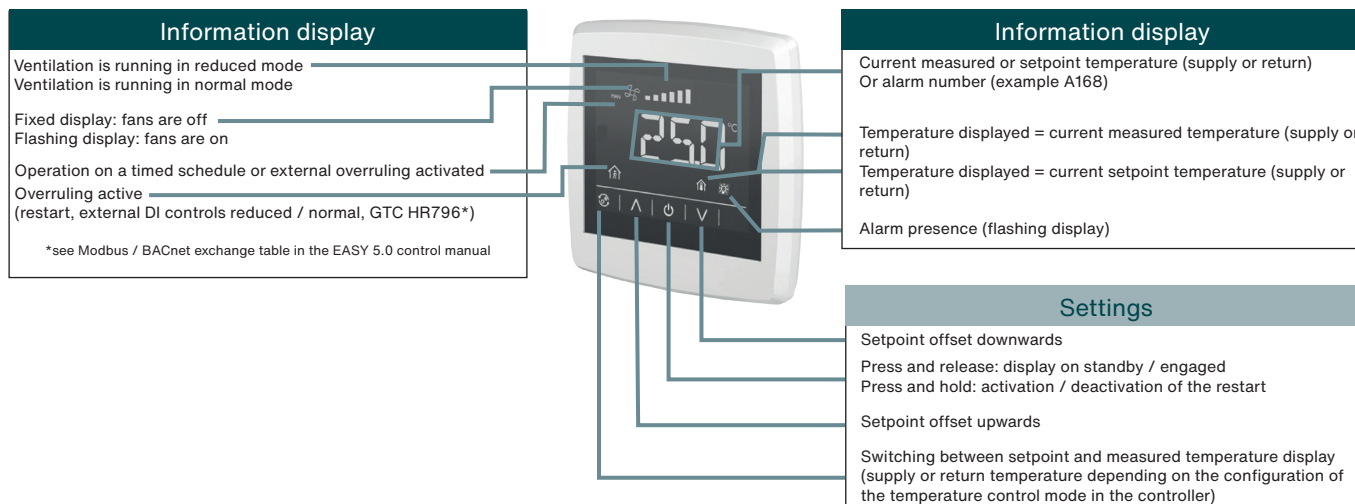
## 3. Functions

The Zehnder EDT2 Wall-Mounted Touchscreen User Controller is a touch-sensitive room control. It provides the interface between the machine and the end user (occupant) through the following features:

Settings		
Temperature setpoint offset in the range of -3 °C to +3 °C (in 0.5 °C increments)		Range changeable from the CLD-283 controller within a limit of -5 °C to +5 °C.
Activation of a 120-minute restart		Press and hold Time can be changed from the CLD-283 controller up to 240 minutes (in 1-minute increments). When the restart is activated, it can be stopped at any time by simply turning off the function manually. It must be reactivated when the programmed time has elapsed.
Putting the display on standby		Press and release
Information (display)		
Current ventilation mode*		Ventilation running in reduced mode Ventilation running in normal mode
Current ventilation status*		Fixed display (= no ventilation) / flashing display (= active ventilation)
Current operating mode*		Operation on a timed schedule or external overruling activated
Current status of external overruling		At least one external overruling activated (restart, external DI controls reduced / normal operation, GTC HR796)
Current temperature setpoint		Supply temperature setpoint if supply temperature is controlled Return temperature setpoint if return temperature is controlled
Current measured temperature		Supply temperature if supply temperature is controlled Return temperature if return temperature is controlled
Presence of alarms		The presence of an alarm is indicated by a small flashing light bulb. AXXX is displayed instead of the temperature when an alarm that causes the machine to stop is active (XXX represents the ID number of the alarm - e.g. A168 for alarm no. 168).

\* This display does not exist when the Zehnder EDT2 is connected to the CLD-283-WEB-5.0 controller with Prog version: 5.0-1-07, display from Prog version : 5.0-1-08.

#### 4. Display zone




#### 5. Compatibility

The Zehnder EDT2 Wall-Mounted Touchscreen User Controller is an optional remote room control for use with the EASY 5.0 system, It is for use with:

- Zehnder Carma
- Zehnder Neotime
- Zehnder Silvertop
- Zehnder Freetime
- Zehnder Hexamotion

It is not compatible with the older 3.6 version (and earlier) controllers used in these units.

#### 6. Installation

Step	Description
1	Check that the support (wall) is suitable to accommodate the Zehnder EDT2 Wall-Mounted Touchscreen User Controller and the power / communication cable.
2	Position the support plate in the desired location using a spirit level (or equivalent) and observing the orientation (indication "UP" with arrow pointing upwards) see accompanying image: 
3	Mark the position of the 4 drill holes for fixing the support plate to the wall, and the central hole for feeding the power / communication cable.
4	Drill the support (wall) taking into account the diameter of the screws and the diameter of the electric cable.
5	Fix the support plate with the screws.
6	Connect the wires to the back of the Zehnder EDT2 Wall-Mounted Touchscreen User Controller according to the wiring diagram (see VII ELECTRICAL CONNECTION).
7	Fit the Zehnder EDT2 Wall-Mounted Touchscreen User Controller onto the support plate.
8	Connect the power supply and the communication bus to the ventilation unit.
9	Activate the connection from the CDL-283 controller.

### 7. Electrical connection

Only one Zehnder EDT2 Wall-Mounted Touchscreen User Controller can be connected to the CLD-283 controller.

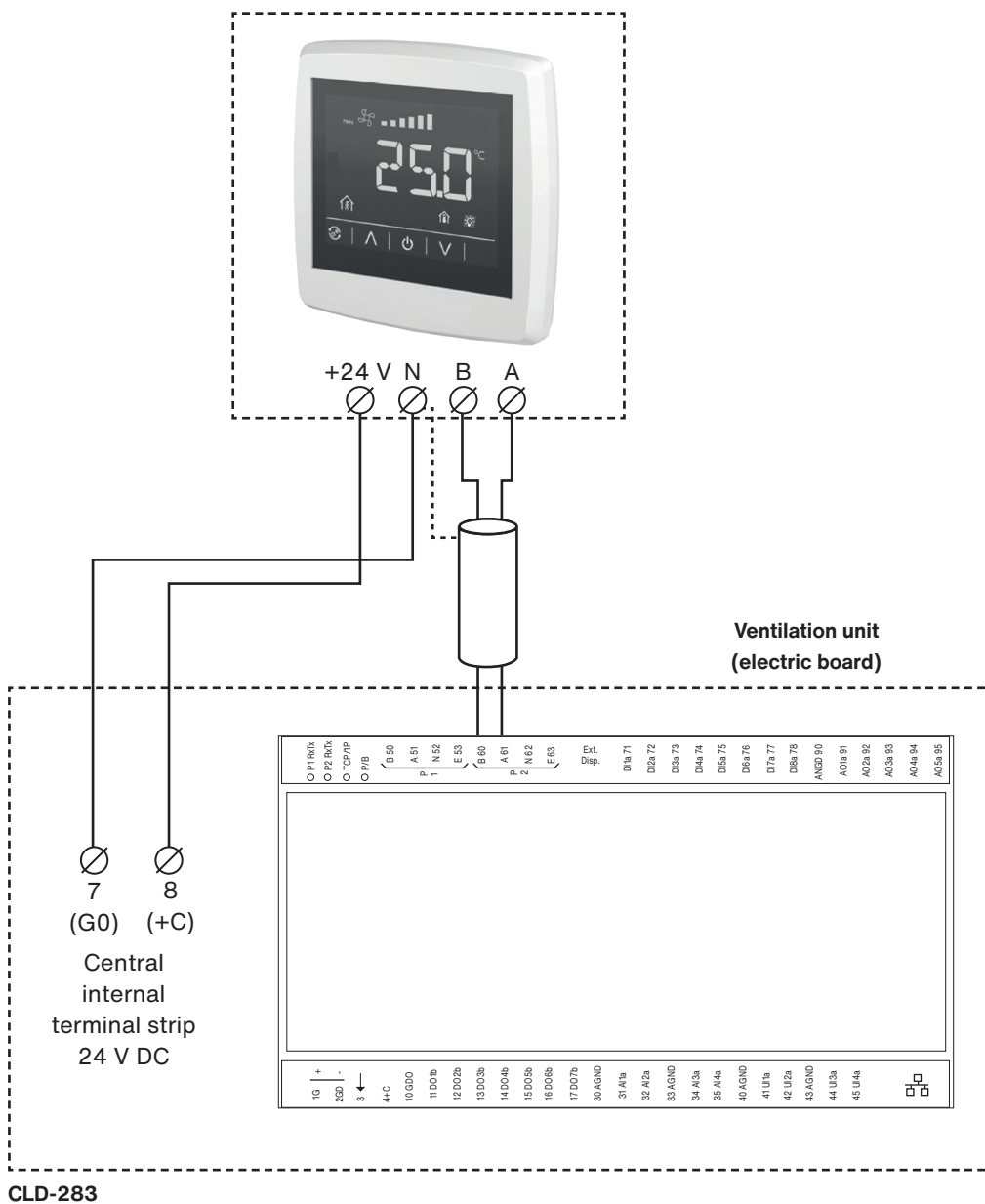
It is important to keep the data transfer cable away from power cables and sources that produce regular power outages (contactors, relays, frequency inverters, etc.) to avoid interference that could affect the quality of data transmission.

Zehnder EDT2 side:

- Connect the data wires (twisted pair) to terminals (B) and (A), and the shielding to (N) of port P2 of the controller.
- Connect the power leads to terminals (+24) and (N).

Ventilation unit side:

- Connect the power leads to terminals (7) and (8) taking into account the polarity.
- Connect the data wires (twisted pair) to terminals (B) and (A) of port P2 of the controller.

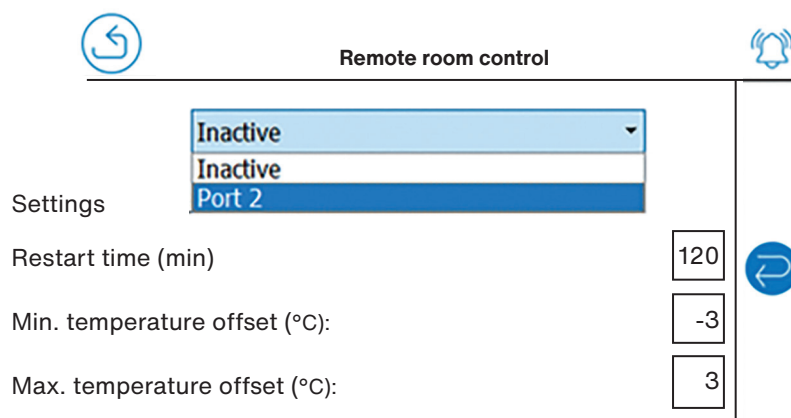


### 8. Configuration of the CLD-283 controller

It is necessary to activate communication with the CLD-283 controller from here.

Access path to the function (Access level: user)				
Step 1	→	Step 2	→	Step 3
From screen				
Area to click				

Select "Port 2" from the drop-down menu bar:



### 9. Diagnosis

Symptom	Possible cause	Remedy
The screen does not light up	There is no power supply	<p>Check the power supply to the ventilation unit (24 V DC between terminals (7) and (8) of the unit).</p> <p>Check the wiring and connections of the power supply cables between the ventilation unit and the Zehnder EDT2 Wall-Mounted Touchscreen User Controller (24 V DC between terminals (+24) and (N) of the Zehnder EDT2).</p>
The screen displays OFFL	There is no communication	<p>Check that communication is enabled in the CLD-283 controller.</p> <p>Check the wiring and the connection of the communication between the ventilation unit and the Zehnder EDT2 Wall-Mounted Touchscreen User Controller ((A → A, B → B, N shielding).</p>

**zehnder**

