

IF-ECblue

Service adapter for ECblue fans

Operating Instructions



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1 General notes

1.1 Meaning of the operating instructions

Before installation and start-up, read this manual carefully to ensure correct use!

We emphasize that these operating instructions apply to specific units only, and are in no way valid for the complete system!

Use these operating instructions to work safely with and on the device. They contain safety instructions that must be complied with as well as information that is required for failure-free operation of the device.

Keep these operating instructions together with the device. It must be ensured that all persons that are to work on the device can refer to the operating instructions at any time.

1.2 Target group

The operating instructions address persons entrusted with planning, installation, start-up, maintenance and servicing, who have the corresponding qualifications and skills for their job.

2 Safety instructions



Information

Mounting, electrical connection, and start-up operation may only be carried out by an electrical specialist in accordance with electrotechnical regulations (e.g. EN 50110 or EN 60204)!



Danger due to electric current

- It is forbidden to carry out work on live device parts. The degree of protection for the open device is IP00! Potentially fatal voltages can be touched directly.
- Observe the 5 electrical safety rules.
- Even after disconnecting the mains voltage, life-threatening charges can appear between the protective ground "PE" and the mains connection.

Waiting period at least 3 minutes!

- The device for which the adapter is used may only be opened when the mains supply line is switched off and after waiting at least 3 minutes.
- Through use of capacitors, danger of death exists even after switching off the device through directly touching the energized parts or due to parts that have become energized due to faults.

3 Product overview

3.1 Function

Parameter update via the service interface for ECblue motors and fans. Firmware update for the I/O board via additional connection cables.

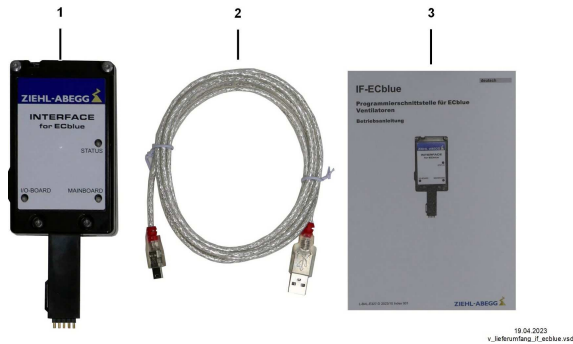
The service adapter is compatible with the following products:

- ECblue BASIC-MODBUS and ECblue BASIC of motor size B (090), D (116), G (152).
- ECblue of motor size O (072) 500 W, B (090).

3.2 Scope of delivery

Two versions are available, which differ in the scope of delivery. With article number 380111, the connection cables for updating the IO printed circuit board are included in addition to article number 380112.

IF-ECblue Part.-No. 380111 and 380112



- 1 Service adapter IF-ECblue
- 2 USB cable with connector type A and mini-B connector
- 3 Operating Instructions

Article no. 380111 additionally with connection cables for updating the I/O printed circuit board



- 4 Part.-No. 00166181
For ECblue BASIC-MODBUS and ECblue BASIC of motor size B(090), D(116), G(152)
- 5 Part.-No. 00166180
For ECblue of motor size O(072)500 W, B(090)

3.3 Interfaces and LEDs



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- 1 I/O supply ECblue
- 2 Communication and supply ECblue
- 3 Status LED
 - Green light - Interface blocked
 - Green flashing - Communication downstream
 - Blue flashing - Communication upstream
 - Red light/flashing - Error (overtemperature, overload, ...)
- 4 Main board LED
 - Green light - Voltage supply for main board active
- 5 I/O BOARD LED
 - Green light - Voltage supply for I/O board active

3.4 Storage

- The device must be stored in its original packaging in a dry and weather-proof room.
- Avoid exposure to extreme heat and cold.
- Avoid over-long storage periods (we recommend a maximum of one year).

3.5 Disposal / Recycling



Disposal must be carried out professionally and in an environmentally friendly way in accordance with the respective national legal stipulations.

- ▷ Separate the materials by type and in an environmentally-friendly way.
- ▷ If necessary, commission a specialist company with the waste disposal.

4 Inserting and connecting the service adapter



Danger due to electric current

- Never use the adapter when the supply voltage is connected.
- Turn off the supply voltage and secure against switching back on.
- Before opening the device, wait at least 3 minutes.
- Check the safe isolation from supply with a **two-pole** voltage detector.



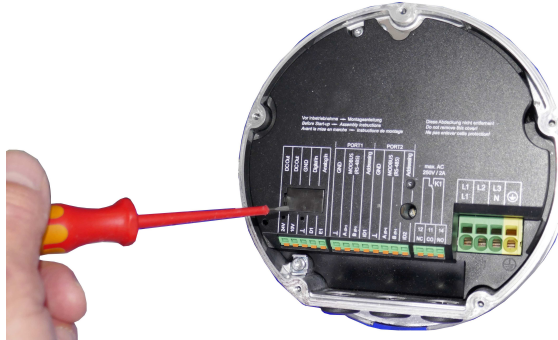
Attention, electrostatic sensitive devices!

- Before removing the adapter from the packaging, touch the protective earth connection in the device to ensure potential equalisation.
- If the adapter is not inserted immediately after unpacking, repeat the potential equalisation shortly before installation.
- Do not touch the plug connection.

4.1 ECblue BASIC-MODBUS and ECblue BASIC of motor size B(090), D(116), G(152)

Procedure for inserting the adapter

- Remove the cover from the ECblue controller housing.
- Remove the cover from the slot for the AM-STICK-WB. If an AM-STICK-WB is inserted, remove it.

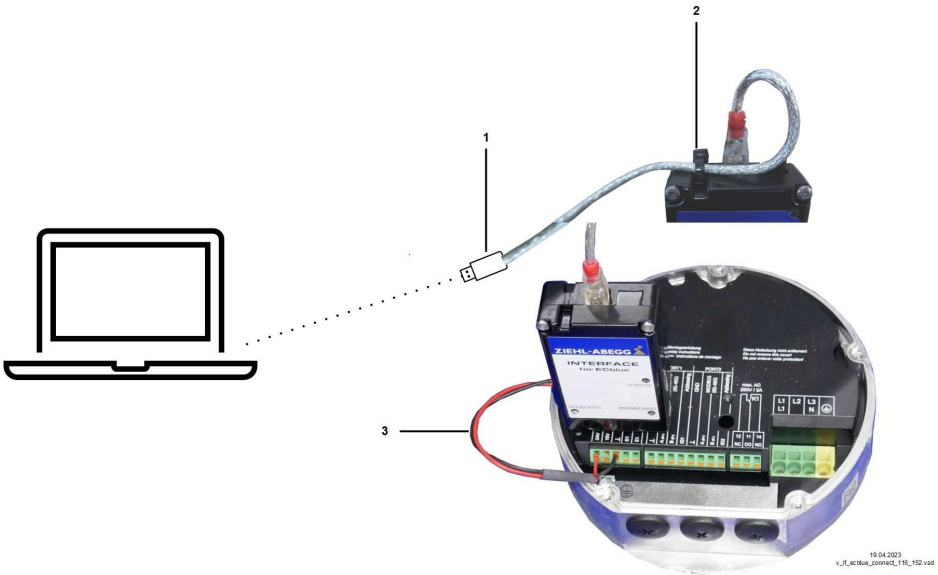


- Insert the adapter in the correct position.



Procedure for connecting the adapter

1. Plug the USB cable into the adapter and connect to the computer.
2. If necessary, secure the cable ties at the recess in the housing using cable ties.
3. To update the I/O printed circuit board, connect the additional connection cable article no. 00166181 to the adapter and connect to the ECblue.
 - Connect the black cable to the GND terminal.
 - Connect the red cable to the 24 V terminal.

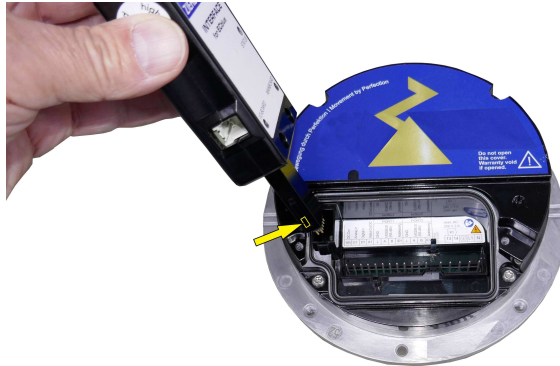


After completing the update or programming, remove the cables and disconnect the adapter. Fit the cover on the slot or replace the AM-STICK-WB if installed. Refit the cover of the controller housing using the specified torque, see ECblue assembly instructions.

4.2 ECblue motor size O(072)500 W, B(090)

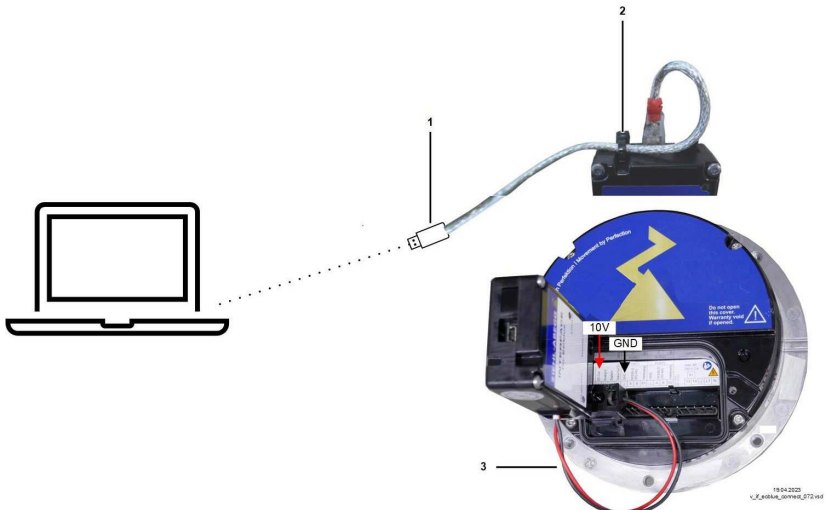
Procedure for inserting the adapter

- Remove the terminal compartment cover.
- If an AM-STICK-WB is inserted, remove it.
- Insert the adapter in the correct position.



Procedure for connecting the adapter

1. Plug the USB cable into the adapter and connect to the computer.
2. If necessary, secure the cable ties at the recess in the housing using cable ties.
3. To update the I/O printed circuit board, connect the additional connection cable article no. 00166180 to the adapter and attach it to the 10V and GND pins in the correct position on the ECblue plug connection.



After completing the update or programming, remove the cables and disconnect the adapter. Re-insert the AM-STICK-WB if installed.

Re-install the terminal compartment cover using the specified torque, see ECblue assembly instructions.

5 Software **ZAupdate**

The software required for the update is available for download on our website.

<https://www.ziehl-abegg.com/digitale-loesungen/software/zaupdate>



6 Enclosure

6.1 Technical data

Type	IF-ECblue
Part-No.	380112
	380111 With additional connection cables for updating the IO printed circuit board
Supply voltage @ USB	4.75...5.25 V UL: 5Vdc max. 0.5A
Supply mainboard (service-interface)	Output voltage: ~ 3.0...3.3 V Output current: 0...160 mA UL: 3.3 Vdc 0.16 A Galvanically isolated from USB & I/O board
Supply I/O-Board	Output voltage 9.8...10.2 V Output current: 0...80 mA UL: 10 Vdc 0.08 A Galvanically isolated from USB and main board
Permissible ambient temperature	-10...40 °C
Permissible rel. humidity	85 % no condensation
Protection rating	IP20
Weight	approx. 150 g

6.2 **Manufacturer reference**

Our products are manufactured in accordance with the relevant international regulations. If you have any questions concerning the use of our products or plan special uses, please contact:

ZIEHL-ABEGG SE
Heinz-Ziehl-Straße
74653 Künzelsau
phone: +49 (0) 7940 16-0
info@ziehl-abegg.de
<http://www.ziehl-abegg.com>

6.3 **Service note**

If you have any technical questions while commissioning or regarding malfunctions, please contact our technical support for control systems - ventilation technology.

phone: +49 (0) 7940 16-800

Email: fan-controls-service@ziehl-abegg.de

Our worldwide contacts are available in our subsidiaries for deliveries outside of Germany, see www.ziehl-abegg.com.