

VACON
ADP-MCAA Communication
Adapter



Danfoss VACON-ADP-MCAA Communication Adapter Instruction Manual

[Home](#) » [Danfoss](#) » Danfoss VACON-ADP-MCAA Communication Adapter Instruction Manual 

Contents

- [1 Danfoss VACON-ADP-MCAA Communication Adapter](#)
- [2 Specification](#)
- [3 Introduction](#)
- [4 Description of Different Parts and Their Functions](#)
- [5 Using the VACON-ADP-MCAA Adapter](#)
- [6 FAQs](#)
- [7 Documents / Resources](#)
 - [7.1 References](#)



Danfoss VACON-ADP-MCAA Communication Adapter



Specification

- Product Name: VACON-ADP-MCAA Communication Adapter
- Compatibility: Vacon 10/20 drives
- Functionality: Adapter between Vacon 10/20 and PC cable, parameter memory device
- Support: Vacon 20 from software version 18 onwards, Vacon 10 from software version 22 onwards

Introduction

The VACON-ADP-MCAA communication adapter serves as an essential link between Vacon 10/20 drives and a computer. It enables parameter settings transfer and storage.

VACON-ADP-MCAA communication adapter has two functionalities:

1. It is needed as an adapter between Vacon 10/20 and the PC cable when Vacon 10/ 20 is connected to a computer.
2. The adapter functions also as a parameter memory device that can store parameter settings from the drive. The parameter settings can be copied to another drive with the help of this adapter.

Please make sure the PC tool Vacon Live is disconnected from the drive before doing parameter upload/download with the MCA adapter.

NOTE! When uploading parameters from the Vacon10/20 drive to MCA, please make sure that the drive's main power is on!

- Vacon 20 is supported by MCA from software version 18 or newer, while Vacon 10 is well supported from software version 22 or newer.
- VACON-ADP-MCAA communication adapter delivery includes only the adapter.
- VACON-ADP-MCAA KIT delivery includes the adapter and the PC connection cable.

Description of Different Parts and Their Functions

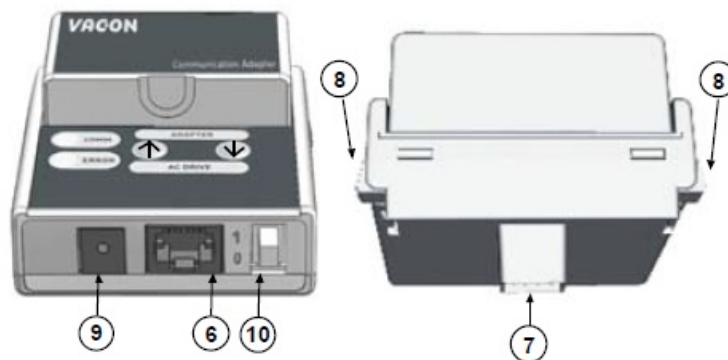
Communication adapter external parts I:

1. Communication indicator (green): The indicator blinks when information is being transferred between the MCA adapter and the drive.
2. Error indicator (red); blinks when there is an error in communication between the MCA adapter and the drive.
3. Upload button: Pressing this button uploads the parameter settings from the drive to the adapter.
4. Download button: Pressing this button downloads the parameter settings from the adapter to the drive.
5. Battery cover: Cover for a 9V battery.



Communication adapter external parts II:

1. RJ-45 connector: PC cable connector
2. Connector for Vacon 10/20
3. Fitting clamps for attaching the adapter to the drive
4. Connector for external 12V DC power supply
5. Switch for turning on/off the battery power supply



Using the VACON-ADP-MCAA Adapter

Functionality of the LED Indicators

- Communication LED (green): Data transfer completed; turns off when 9V battery level is low.
- Error LED (red): Indicates communication errors between MCA and the drive.



Communication LED on (green): Ready state, e.g., data transfer completed; Turn off when 9V battery level is low.



ERROR



COMM



ERROR

Error LED on (red): Fault state, communication error between the MCA and the drive.



COMM

COMM LED blinks: MCA and the drive are communicating. (for example, le parameter up-/downloading)



ERROR

ERROR LED blinks: Error LED blinks fast when communication failure occurs, and it blinks slowly when the 9V battery level is low.

Connecting Vacon 10/20 to a PC with the MCAA adapter

1. Make sure that Vacon 10/20 is powered off.
2. Remove the rubber plug covering the connector port of the drive, see below:



3. Connect the MCAA adapter to the drive, see below:



4. Connect the PC cable to the adapter and your PC.
5. Power on Vacon 10/20. The red and green LEDs blink alternately before communication is established between the adapter and the drive. You can now adjust parameter settings, control the operation of the drive, monitor the drive with Vacon Live PC software, or update the software of the drive by using Vacon Loader PC software.

Disconnecting Vacon 10/20 from the PC

1. Make sure that Vacon 10/20 is powered off.
2. Remove the PC cable and disconnect the adapter from the drive by pressing the fitting clamps on the sides of the adapter. (See Figure 1.2)
3. Insert the rubber plug back on the connector port of the drive

Copying parameter settings from one drive to another

1. Make sure that Vacon 10/20 is powered off, and connect the MCAA adapter to the drive. See steps 1-3 in Chapter 3.2.
2. Power on the drive and press the upload button for about 3 seconds on the adapter to upload the parameter values from the drive to the adapter. Wait until the COMM LED stops blinking. And for Vacon 20, it can also be seen when the progress bar reaches the end.
3. Power off the drive and remove the MCAA adapter. See step 2 in the Chapter. 3.3
4. Connect the adapter to the other drive according to the procedure described above.
5. Power on the drive and press the download button on the adapter for about 3 seconds to download the parameter values from the adapter to the drive. Wait until the COMM LED stops blinking. And for Vacon 20, also can be seen when the progress bar goes to the end.
6. Power off the drive and remove the MCAA adapter. The parameter settings from the first drive have now been copied onto this drive.
7. Locking and Unlocking uploading parameter values function: Holding upload and download buttons at the same time for about 5 seconds locks the function of uploading parameter values.
The status of locking can be released from the same operation as holding upload and download buttons at the same time for about 5 seconds.

9V battery level indicator

- Vacon Live PC-software can retrieve parameter values copied from drive in an MCAA adapter which is utilized as a standalone device. 9V battery can be used when Vacon Live PC-software connects with a standalone MCAA adapter.
- Low voltage level of battery, which cannot guarantee Vacon live PC-software communication, can be indicated by blinking red LED while the green LED is turned off.

INFORMATION

- **24-hour support** +358 (0)201212575
- **Email:** vacon@vacon.com
- **Tel.** +358 (0)201 2121
- **Fax** +358 (0)201 212205
- Find your nearest Vacon office on the Internet at:
www.vacon.com
- Manual authoring: documentation@vacon.com

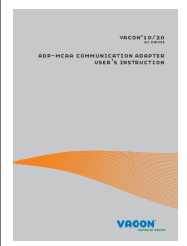
Vacon Suzhou Drives Co. Ltd. No. 71 Xinqing Road Suzhou Industrial Park Suzhou, Jiangsu Province, P.R. China, 215123 Subject to change without prior notice © 2014 Vacon Plc.

FAQS

Q: What should I do if the error LED blinks fast?

A: The error LED blinks fast when a communication failure occurs. Check connections and try again. If the issue persists, consult the user manual or contact support.

Documents / Resources

	<p>Danfoss VACON-ADP-MCAA Communication Adapter [pdf] Instruction Manual VACON 10, VACON 20, VACON-ADP-MCAA Communication Adapter, VACON-ADP-MCAA, Communication Adapter, Adapter</p>
---	---

References

- [User Manual](#)

Manuals+, Privacy Policy

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.