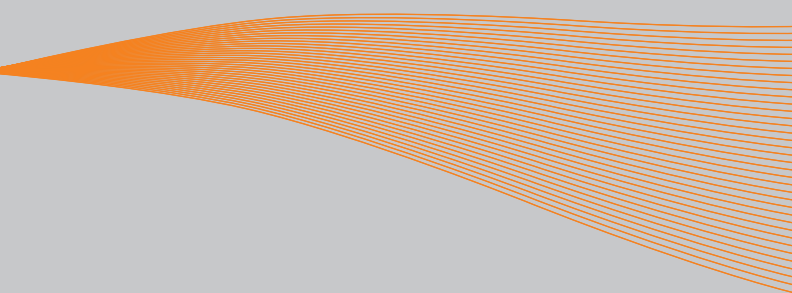# ADP-MCAA COMMUNICATION ADAPTER
USER'S INSTRUCTION

VACON ADP-MCAA COMMUNICATION ADAPTER FOR VACON 10/20, USER'S INSTRUCTIONS

1. INTRODUCTION

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 with drive before doing parameter upload/download with MCA adapter

**NOTE! When uploading parameters
from Vacon10/20 drive to MCA,
please make sure that drive 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.
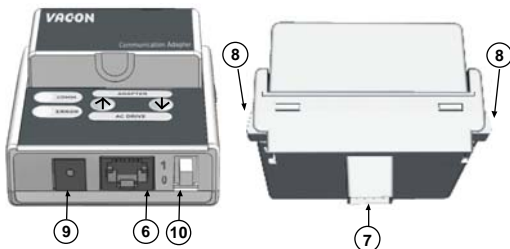
2. DESCRIPTION OF DIFFERENT PARTS AND THEIR FUNCTIONS

Communication adapter external parts I:

Figure 1.1: 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 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:

Figure 1.2: Communication adapter external parts II

6)   RJ-45 connector: Connector for the PC-cable.

7)   Connector for the Vacon 10/20.

8)   Fitting clamps for attaching the adapter to the drive.

9)   Connector for external 12 V DC power supply.

10) Switch for turn on/off the battery power supply.

3. USING THE VACON-ADP-MCAA ADAPTER
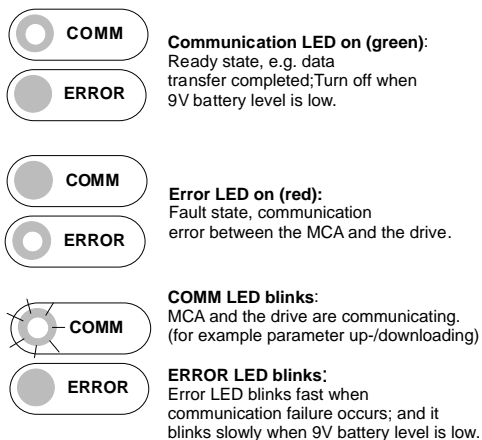
3.1 Functionality of the led indicators

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

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

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

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

Figure 1.3: Functionality of the LED indicators

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3.2 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 to your PC.

5	Power on Vacon 10/20. The red and green LED blink alternatively 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

3.3 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

3.4 Copying parameter settings from a 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, also can be seen when the progress bar goes to the end.
3	Power off the drive and remove the MCAA adapter. See step 2 in ch. 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.

3.5 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.

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