

# HVFDCDMCA / HVFDCDMCAKIT/ HVFDCABLE

PC-CONNECTION ACCESSORIES FOR SMARTVFD COMPACT, HVAC, & BYPASS

## INSTALLATION INSTRUCTIONS

### INTRODUCTION

The HVFDCDMCA, HVFDCDMCAKIT, and HVFDCABLE accessories enable Honeywell SmartVFD products to be connected with the USB port of your PC. Such connections make it possible to use Honeywell SmartVFD commissioning and software download PC-tools available free of charge at: [Customer.honeywell.com/vfd](http://Customer.honeywell.com/vfd), then select "Software Downloads"

HVFDCDMCA, HVFDCABLE, and HVFDCDMCAKIT (includes both the cable and the MCA) are intended for connecting the SmartVFD COMPACT to the USB port of your PC. It can also be used for copying parameters between two similar COMPACT VFDs.

The HVFDCABLE can be used by the SmartVFD HVAC and BYPASS products for a direct USB connection between your PC and VFD without any additional adapters.

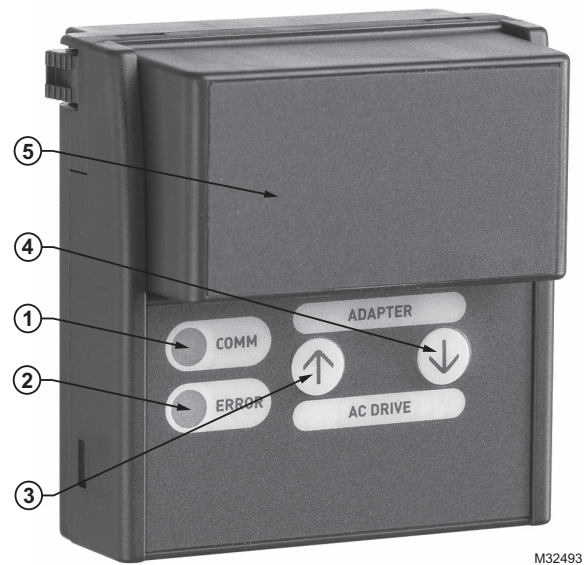
### FEATURES

- **USB connection to PC**
- **Parameter copy with HVFDCDMCA for SmartVFD COMPACT (NOTE! Parameter sets can be copied only between SmartVFD Compact VFDs of the exact same type)**

### MODELS

OS no.	Description
HVFDCDMCA	SmartVFD Compact Parameter download/upload and PC interface tool
HVFDCDMCAKIT	SmartVFD Compact Parameter download/upload and PC interface tool with HVFDCABLE for USB connection to the PC included
HVFDCABLE	SmartVFD 3.0m USB PC connection cable

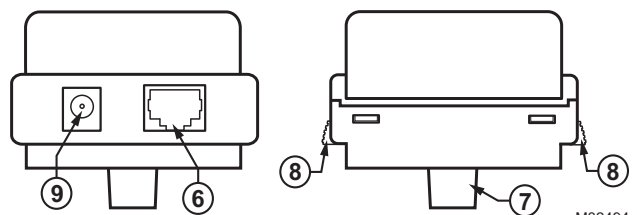
### DESCRIPTION OF EXTERNAL PARTS



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**Fig. 1. External parts of the HVFDCDMCA**

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



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**Fig. 2. Top and bottom view of HVFDCDMCA**

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NOTE: See Figure 2 for the following callout descriptions.

6. RJ-45 connector: Connector for the PC-cable.
7. Connector to the VFD.
8. Fitting clamps: clamps for attaching the HVFDCD-MCA to the VFD
9. External power supply connection (for future development)

## FUNCTIONALITY OF THE LED INDICATORS



**COMM LED ON (green):**  
Ready state, e.g., data transfer completed



**Error LED ON (red):**  
Fault state, communication error between the HVFDCD-MCA and the VFD



**Error LED ON (red):**  
Fault state, communication error between the HVFDCD-MCA and the VFD



**COMM LED blinking (green):**  
HVFDCD-MCA and the VFD are communicating (e.g., parameter up-/download)



## CONNECTING THE SMARTDRIVE COMPACT TO A PC WITH HVFDCD-MCA

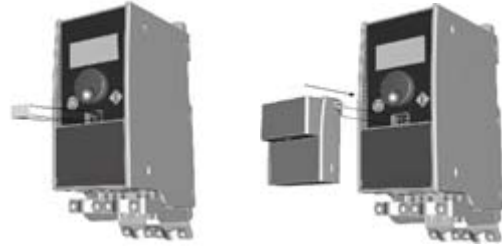
1. Make sure that the SmartVFD COMPACT is powered OFF.
2. Remove the rubber plug covering the connector port of the VFD, see Figure 3.
3. Connect the HVFDCD-MCA to the VFD, see Figure 3.

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**Fig. 3. Remove rubber plug and connect HVFDCD-MCA to the VFD**

4. Connect the HVFDCABLE to the HVFDCD-MCA and to your PC.
5. Power ON the VFD. You can now adjust parameter settings, control the operation, monitor the VFD with the SmartVFD Commissioning Tool, or update the software by using the software update functionality.

## DISCONNECTING THE SMARTDRIVE COMPACT FROM THE PC

1. Make sure that SmartVFD COMPACT is powered OFF.
2. Remove the HVFDCABLE and disconnect the HVFDCD-MCA from the VFD by pressing the fitting clamps on the sides of the HVFDCD-MCA.
3. Insert the rubber plug back onto the connector port of the VFD.

## COPYING PARAMETER SETTING FROM AN VFD TO ANOTHER

NOTE: Parameters can be copied only between SmartDrive COMPACT VFDs of the exact same type using the MCA.

1. Make sure the VFD is powered OFF and connect the HVFDCD-MCA to the VFD.
2. Power ON the VFD and press the upload button to upload the parameter values from the VFD to the loader. Wait until the COMM LED stops blinking.
3. Power OFF the VFD and remove the HVFDCD-MCA.
4. Connect the HVFDCD-MCA to the other VFD of the exact same type as described in the above procedure.
5. Power ON the VFD and press the download button to download the parameter values from the HVFDCD-MCA to the VFD. Wait until the COMM LED stops blinking.
6. Power OFF the VFD and remove the HVFDCD-MCA. The parameter settings from the first drive have now been copied onto this VFD.

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