Danfoss

INSTALLATION INSTRUCTIONS: MCD USB MODULE

1. Introduction

The USB Module can be used in conjunction with WinMaster to manage Danfoss soft starters.

These instructions detail the installation, set-up and configuration of the USB Module. For details on using WinMaster, refer to the WinMaster help file.

2. Installation



CAUTI ON

Remove mains and control voltage from the soft starter before attaching or removing accessories. Failure to do so may damage the equipment.

MCD 200

Plug the module onto the side of the soft starter.



MCD 500:

To plug the module onto the side of the soft starter, line the interface up with the comms port slot.

Press the top retaining clip of the module into the soft starter chassis first, then press in the bottom retaining clip.

Remove the module using the following procedure:

- 1. Remove control power and mains supply from the soft starter.
- 2. Take the module off-line.
- 3. Disconnect the USB cable from the module.
- 4. Push a small flat-bladed screwdriver into the slots at the top and bottom of the module and depress the retaining clips.
- 5. Pull the module away from the soft starter.



1



3. Connection



For the USB Module to accept serial commands, a link must be fitted across terminals A1-N2 on MCD 200 starters.

Input links are required across terminals 17 and 25 to 18 if the MCD 500 soft starter is being operated in Remote mode. In Local mode, links are not required.



N.B.!:

MCD 500 parameter 3-2 selects whether the soft starter will accept Start and Stop commands from the Serial Network Master while in Remote Mode. See the soft starter user manual for parameter details.

Dantoss

4. Configuration

To bring the USB Module on-line:

- 1. Remove control power and mains supply from the soft starter.
- 2. Attach the module to the soft starter as illustrated.
- 3. Connect the module to the PC via a USB cable. The PC should detect the module and the Hardware Update Wizard will open.
- 4. Install the supplied USB UART driver to operate the module as follows.

ound New Hardware Wizard	Found New Hardware Wizard
Welcome to the Found New Hardware Wizard Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web are (with your permission). Read our privacy policy	This wizard helps you install software for: FT232R USB LIART
Can Windows connect to Windows Update to search for software? C Yes, this time only C Yes, now and giveny time I connect a device C No. not this time Click Next to continue.	If your hardware come with an installation CD or floppy disk, insert it now. What do you want the wizard to do? C [ristal the software automatically [Recommended] @ [instal from a list or gpecific location (Advanced] Click Next to continue.
< Back Next > Cancel	< <u>Back</u> Next > Cancel

The driver can be found in the USB Comms Drivers folder on the supplied CD. Click on the Browse button then navigate to the drivers folder and select the appropriate folder for your operating system.

Found New Hardware Wizard		
Please choose your search and installation options.	Browse For Folder	<u>?</u> ×
© Search for the best driver in these locations.	Select the folder that concars drivers for y	
Use the check block break of mill of expand the partial search, which includes tocal paths and removable media. The best driver found will be installed. □ Search removable media. The best driver found will be installed. □ Include this location in the search: □ □	My Documents My Computer My Network Places USB Comms Drivers Win96_ME Win96_ME My Network Mode4 1386	
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.	To view any subfolders, click a plus sign ab	ove.

Click on Ok, then Next. The software will install. If you see a prompt, click Continue Anyway. Once installation is complete, click Finish.

5. The PC will prompt you to install serial port driver software. Repeat the procedure in Step 4. You may need to restart your PC once the driver software is installed.

Configuration

Danfoss

 Identify the USB Serial Port assignment by checking Control panel > System > Hardware > Device Manager> Ports (COM & LPT).





N.B.!:

If the USB port is not shown, disconnect then reconnect the cable. If the problem persists, restart your PC.

7. Open WinMaster and change the Network Settings to:

Protocol: AP Binary or AP ASCI1

Baud rate: 9600

Serial Port: Use the serial port number identified above

8. Apply control voltage to the soft starter. Bring WinMaster on-line, then Search for Network Starters.



N.B.!:

The starter may trip on Starter Comms while the Master is off-line. Reset the soft starter and place the Master on-line.



N.B.!:

The drivers will configure the USB port that the module is connected to. You must use the same physical USB port every time you connect the module to the PC.



5. Specifications

Order code	
	175G9009
Enclosure	
Dimensions	35 mm (W) x 157 mm (H) x 90 mm (D)
Weight	250 g
Protection	IP20
Mounting	
Spring-action plastic mounting clips (x 2)	
Connections	
Soft starter	6-way pin assembly
Network	USB-B
Maximum cable length	3 metres (not supplied)
Settings	
Protocol	
MCD 200	AP ASCI I
MCD 500	Binary
Address	
Data rate (bps)	

6. Troubleshooting

Symptom	Cause and solution
"Unknown Device has been	The USB cable may be too long.
detected" message when interface	Use a standard USB cable less than 3 metres long.
is first plugged in	
WinMaster goes offline and soft	The USB cable has been unplugged.
starter trips on Starter Comms	Ensure the cable is plugged in at both ends, then bring
	WinMaster back on-line.
WinMaster locks up when on-line.	Severe external electrical disturbance or equipment
Log view indicates comms failure	failure.
and a change to offline mode	Reconnect the USB cable, the close and restart
	WinMaster. Bring WinMaster on-line.
	If the problem persists, contact your local supplier.