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USB MODULE

Communications module

User Guide

General Information

The manufacturer accepts no liability for any consequences resulting from inappropriate, negligent or incorrect installation or adjustment of the optional parameters of the equipment or from mismatching the starter with the motor.

The contents of this guide are believed to be correct at the time of printing. In the interests of commitment to a policy of continuous development and improvement, the manufacturer reserves the right to change the specification of the product or its performance, or the content of the guide without notice.

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1. Introduction

The USB Module can be used in conjunction with Digistart-Soft to manage LEROY-SOMER soft starters. These instructions detail the installation, set-up and configuration of the USB Module. For details on using Digistart-Soft, refer to the Digistart-Soft help file.



For Digistart Soft to communicate with a soft starter via the USB Interface, Digistart Soft must be configured to use the AP ASCII or AP Binary protocols.

2. Important User Information

Observe all necessary safety precautions when controlling the soft starter remotely. Alert personnel that machinery may start without warning.

It is the installer's responsibility to follow all instructions in this manual and to follow correct electrical practice.

3. Installation



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

3.1 Installation Procedure

- 1. Remove control power and mains supply from the soft starter.
- 2. Attach the module to the soft starter as illustrated.
- 3. Apply control power to the soft starter.

3.2 Physical installation

- 1. Fully pull out the top and bottom retaining clips on the module.
- 2. Line up the module with the comms port slot.
- 3. Push in the top and bottom retaining clips to secure the module to the starter.

Figure 3-1 Attach the module to the starter



Figure 3-2 Remove the module from the starter

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 all external wiring from the module.
- 4. Fully pull out the top and bottom retaining clips on the module.
- 5. Pull the module away from the soft starter.



4. Connection

Figure 4-1 USB Module connections					
Digistart D2		Digistart D3			
	 CSL ○ DI2 2 3 		• DI2 • +24V • DI3 • +24V 		
1	Digistart D2 CSL, DI2: Stop input	1	Digistart D3 (Remote mode) DI2, +24V: Stop input		
2	USB Module	2	USB Module		
3	USB port	3	USB port		

Digistart D2: For the USB Module to accept serial commands, a link must be fitted across terminals CSL-DI2 on the soft starter.

Digistart D3: Input links are required across the stop and reset inputs if the soft starter is being operated in Remote mode. In Local mode, links are not required.

If the Starter Disable function is not required, change the setting of Pr 3A or connect a link across DI4, +24V.

NOTE Digistart D3: Control via the serial communication network is always enabled in local control mode, and can be enabled or disabled in remote control mode (Pr **30** *Comms in Remote*). See the soft starter user manual for parameter details.

5. 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 USB driver to operate the module as follows.

The driver can be downloaded from <u>www.leroy-somer.com</u>.

Found 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 site (with your permission). Read our privacy policy	This wizard helps you install software for: FT232R USB UART
- And	Can Windows connect to Windows Update to search for software?	If your hardware came with an installation CD or floppy disk, insert it now.
	O Yes, now and every time I connect a device	What do you want the wizard to do?
	 No, not this time 	Install the software automatically (Recommended)
		Install from a list or specific location (Advanced)
	Click Next to continue.	Click Next to continue.
	< Back Next > Cancel	<back next=""> Cancel</back>

Found New Hardware Wizard	
Please choose your search and installation options.	Browse For Folder
 Search for the best driver in these locations. Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed. Search removable media (floppy, CD-ROM) Include this location in the search C:\Documents and Settings\user\Desktop\USB Comm Don't search. I will choose the driver to install. 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. 	Select the folder that contains drivers for your hardware.
< Back Next > Cancel	OK Cancel

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

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

- 7. Open Digistart-Soft and change the settings as follows: Protocol: Digistart D2 Series = ASCII; Digistart D3 = Binary Baud rate: 9600 Address: 20 Port: Use the serial port number identified above
- 8. Apply control voltage to the soft starter and bring the Master on-line.

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

NOTE 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.

6. Specifications

Enclosure	
Dimensions	40 mm (W) x 166 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	AP Binary or AP ASCII
Address	
Data rate (bps)	



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