

## Short Manual ST@Drive for ST500 series

**Important! Work on the drive only when switched off! Measure the voltage before work to make sure there is no danger. All work must be done by electrical professionals.**

1. Connect the brown wire to the clamp labeled **485-** and the (depending on the revision of the adapter) blue or white wire to the clamp labeled **485+** as shown in picture 1 below.



*Picture 1*

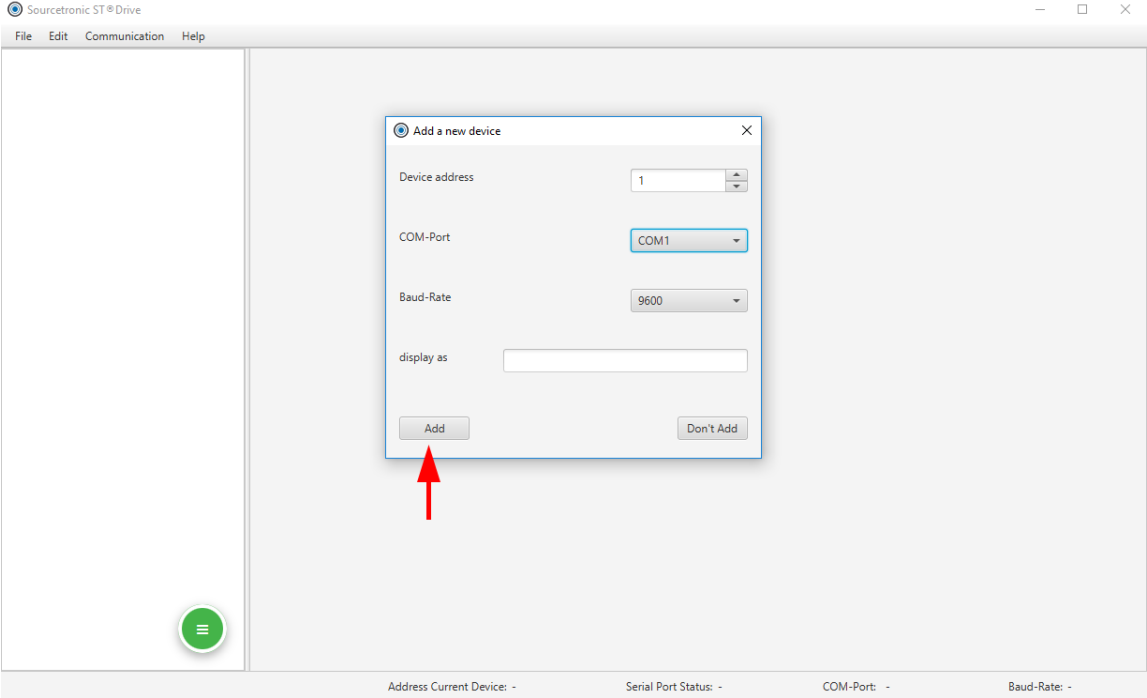
2. Connect the USB adapter to a free USB port on your computer. Windows should find and install a driver on its own when connected to the internet. Otherwise, there's a driver provided on the install CD.
3. Turn on the ST500 series AC drive.
4. Use the ST@Drive installer on the CD to install the software on your Windows PC.
5. Start the ST@Drive software.

6. Open the dialog to add a new device by clicking the green menu button and then the “Add device manually” button as shown in picture 2:



Picture 2

7. Use the popup dialog to define the correct COM Port, then click the “Add” button as seen in picture 3. The settings for device address and baud rate are the inverter’s default communication settings, so unless you changed those, you can skip them here.



Picture 3

8. If the device is not found even though it is connected and switched on, try another COM port.

9. Expand the device tree on the left side, then you can select the parameter groups and view and change individual parameters.

The screenshot shows the Sourcetronic ST Drive software interface. On the left, a tree view under 'Device #1 (addr. 1)' is expanded to 'All Parameter Groups', with 'F0 Basic function group' selected. The main area displays a table titled 'F0 - Basic function group' with columns: Register, Description, Device Value, Range, Unit, and Default Value. The table lists 24 parameters (F0 00 to F0 23) with their respective values and units. At the bottom, status information is shown: Address Current Device: 1, Serial Port Status: Connected, COM-Port: COM1, Baud-Rate: 9600.

Register	Description	Device Value	Range	Unit	Default Value
F0 00	Motor control manner		0 - 2		2
F0 01	Keyboard set frequency		0.0 - 50.0	Hz	50.0
F0 02	Frequency command resolution		1 - 2		2
F0 03	Frequency source master setting		0 - 9		1
F0 04	Frequency source auxiliary setting		0 - 9		0
F0 05	Reference object selection for frequency source auxiliary s...		0 - 2		0
F0 06	Frequency source auxiliary setting range		0 - 150	%	100
F0 07	Frequency source superimposed selection		0 - 3		0
F0 08	Frequency source offset frequency when superimposing		0.0 - 50.0	Hz	0.0
F0 09	Shutdown memory selection for digital set frequency		0 - 1		1
F0 10	Frequency command UP / DOWN reference when running		0 - 1		0
F0 11	Command source selection		0 - 4		0
F0 12	Binding frequency source for command source		0 - 999		0
F0 13	Acceleration time 1		0.0 - 650.0	s	1
F0 14	Deceleration time 1		0.0 - 650.0	s	1
F0 15	Ac/deceleration time reference frequency		0 - 2		1
F0 16	Ac/deceleration time reference frequency		0 - 2		0
F0 17	Carrier frequency adjustment as per temperature		0 - 1		0
F0 18	Carrier Frequency		0.5 - 16.0	kHz	0
F0 19	Maximum output frequency		50.0 - 320.0	Hz	50.0
F0 20	Upper limit frequency source		0 - 6		0
F0 21	Upper limit frequency		0.0 - 50.0	Hz	50.0
F0 22	Upper limit frequency offset		0.0 - 50.0	Hz	0.0
F0 23	Lower limit frequencv		0.0 - 50.0	Hz	0.0

Picture 4