SCxxx demo panel

To make it easier to test and develop applications with Simplex Motions SC-Series of motors, we have developed the SCxxx demo panel.
A quick and easy way of getting started!

Included in the kit is the SCxxx demo panel and a 300mm long cable harness (14pcs of AWG22 wire with PHDR-14VS connectors on each end).

The SCxxx demo panel consists of:

- USB mini B connector with an FT234XD chip to allow connection to the motors using the RS485 Modbus bus
- 1 Potentiometer connected to input 1 and the 3.3V output to provide an analog input.
- 6 switches connected between input 1 to 6 and GND to provide digital inputs
- A 2.5x5.5mm barrel power connector
- A 2-pol terminal power connector
- S14B-PHDSS to be used with the demo cable to connect with the motor

Good to know;
Connecting with SimplexMotionTool software
You connect with the motor over serial port in SimplexMotionTool. Connect USB is only used when connecting to a motor with integrated USB communication.

Input 1 is always 0
Don't forget to put the potentiometer to its max position if using the digital input 1. Having the potentiometer on a low value might make the motor see a "0" instead of a "1" and vise versa depending on the settings used.
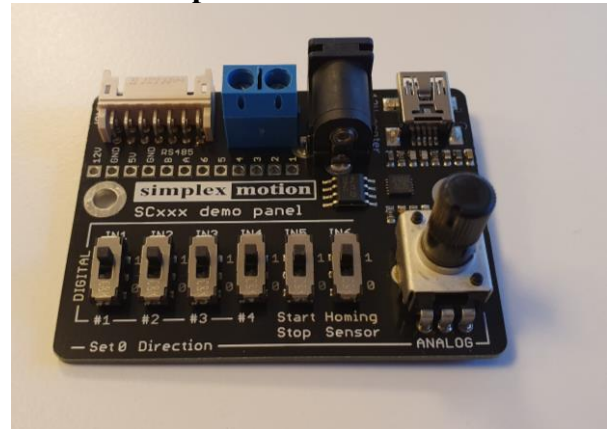
Motor doesn't start up when I connect the USB
The USB connection power (+5V) is not used to power the motor, you need to connect an external power to the 2.5x5.5mm barrel socket or the 2-pol power terminal.

The connection does not show up as a com port on my computer
Usually all computers have the drivers already installed for the FT234XD chip, if not, you can download it from the manufacturers webpage;
www.ftdichip.com

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SCxxx demo cable

A SC020B motor connected with the demo panel powered by the 2.5x5.5 barrel plug and connected with a PC over USB cable