

AD-Teknik Phoenix Smartmouse Interface, USB version

The interface is a software controllable phoenix/smartmouse interface which can be programmed to output three different frequencies.

A phoenix/smartmouse interface is used to communicate with standard smartcard which uses ISO7816 T=0 protocol for their communication

The difference between a phoenix and a smartmouse interface is the polarity of the reset signal.

The main difference between AD-Teknik's interface and others is that:

- It's connected to the USB port instead of a comport
- No external power is required since it uses the power from the USB interface
- It's software programmable, no need for switches or need to buy several phoenix and smartmouse interfaces with the correct oscillator to suit your needs.

Software interface

In order to follow the phoenix/smartmouse standard which requires the interface to be connected to a comport our interface uses a VCP (Virtual Com Port) driver that fully emulates a standard comport so the software that uses the device have no knowledge that the interface is actually connected to an USB port.

Thanks to the VCP all software written to communicate with a normal phoenix/smartmouse interface connected to an ordinary comport can still be used. In fact the software will have no idea that all data is being re-directed to your computers USB bus.

It is advised that any software that is used to reprogram the state of the interface should check to see if there is a smartcard inserted in the reader. If there is a smartcard in the reader it could interfere with the communication. Please monitor the DCD signal to check if there is a card in the reader.

To enter configuration mode, take the following steps:

Set your comport to communicate at 9600 8N1, no handshake.

Apply a break signal for 1.2 seconds.

The interface sends an ACK character to confirm that it has entered configuration mode.

The following commands are now available:

Get version: *A

Responds: 4 bytes: Lo version byte, Hi version byte, Product code (10h) and ACK

Set parameters: *Bx

Where x is a byte:

Bit 0,1 -> 0=Oscillator OFF, 1=3.58MHz, 2=3.68MHz, 3=6.00MHz

Bit 7 -> 0=Phoenix, 1=Smartmouse

Responds with an ACK

Exit program mode: *C

Responds with an ACK

phoenix

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