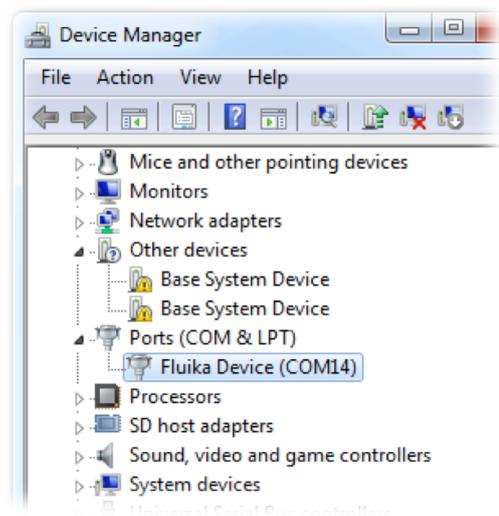# FLUIKA™ Miniature Pneumatic Control Kit

Driver Installation Guide

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Disclaimer

We ("Fluika OÜ") believe that our products are safe, while used in the intended manner and under normal conditions. However it is entirely your ("Buyer's") responsibility to ensure safety of your application, setup or eventual system, where our products have been used as components. As well as it is your responsibility to ensure, that your eventual system meets with your specification. Our products are not intended for critical applications, where failure of the device may result in hazard to life or compromise any other ways safety of person or property (Life support and safety applications). Any unintended use is entirely at the risk of buyer, where we have no liability. We disclaim all liability arising from this information and its use.

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IMPORTANT

Due to constant development of our devices, upgraded firm- and software, your actual device or software behavior may differ from that in this documentation. Therefore it is important to obtain latest documentation from our web site (www.fluika.com). All documents are indexed and named FD followed by three digit document number and eventually version number (eg. "FD001-v1.pdf"). Also source codes, project examples and tutorial videos can be found on our web site.

CONTENT

This document provides step-by-step, guide how to install software drivers for FLUIKA™ Miniature Pneumatic Control Kit ("FLUIKA Kit") and test connectivity with computer. Detailed description is based on installation on Windows® 7 and will be slightly different on other versions of Windows®. Example on Mac OS X is based on version 10.9 This information is universally valid for all components of FLUIKA Kit, describing:

- Installation
- Testing
- On Windows
- On Mac OSX

For Windows you need to install Fluika driver only once per computer. All components in this kit use same driver!

INSTALLATION ON WINDOWS

Requirements:

- Hardware: computer with USB 2.0 port(s) and Fluika component(s)
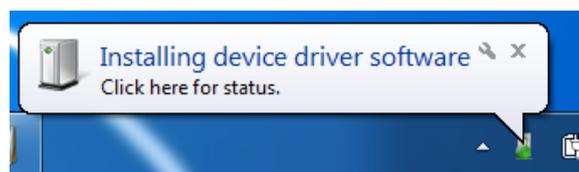- Software: Windows® XP/Vista/7

Before starting, obtain driver file from our web site:

> Filename: **FluikaDriver.zip**, which contains two folders
> Driver_32bit and Driver_64bit, both contain file
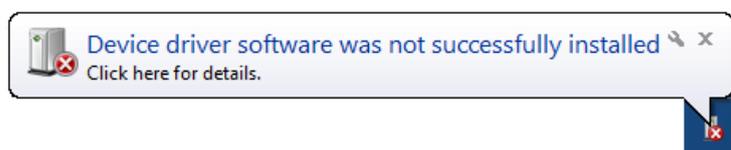> **FluikaDriver.inf**, which is actual driver definition.
> Extract files!

Thereafter connect the Fluika component into USB port of your computer.
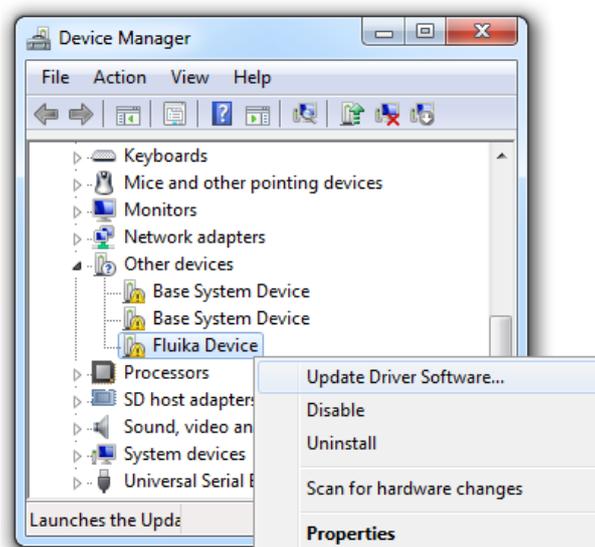
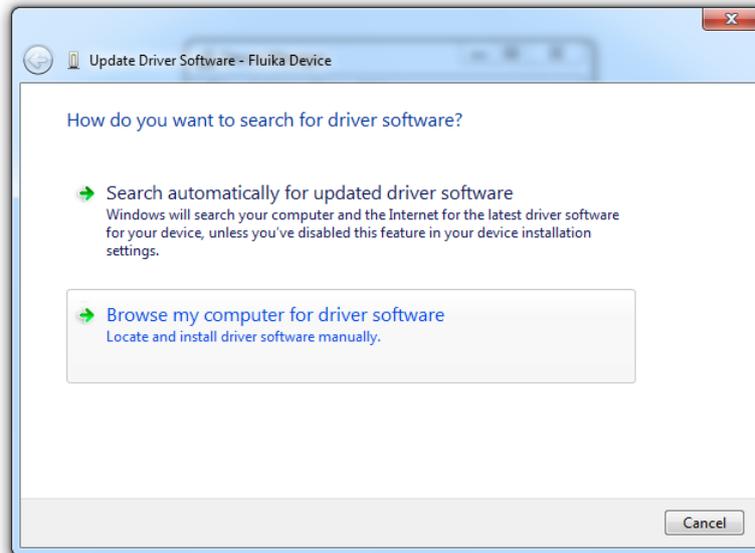Computer recognizes the device and tries to install driver

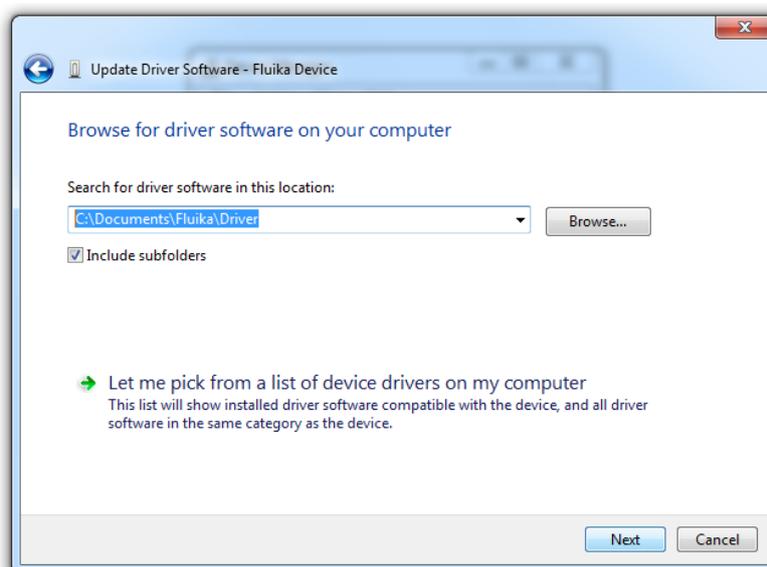But will not succeed, as suitable driver is not found

Open **Device Manager** (Start Menu →Control Panel→Device Manager). You can find Fluika Device listed under **Other Devices**. Right click on **Fluika Device** and choose **Update Driver Software**.
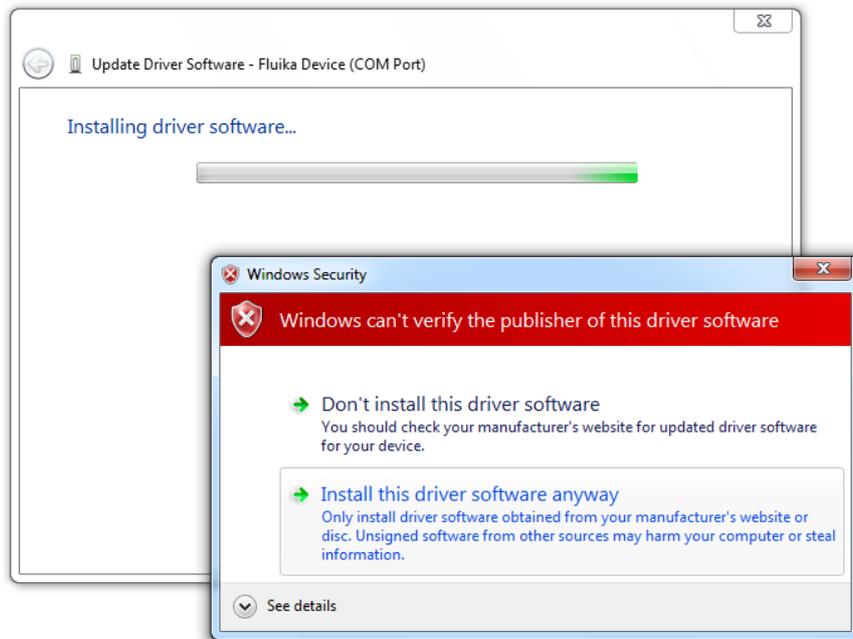
Then Windows will ask about driver installation. Choose **Browse my computer for driver software**.
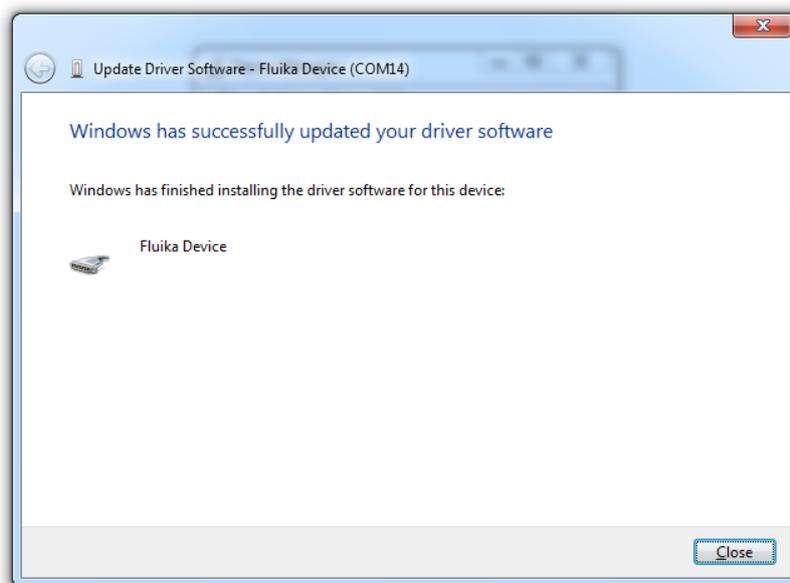

Choose folder (either 32- or 64-bit version depending on your operating system), where you saved driver file and click Next
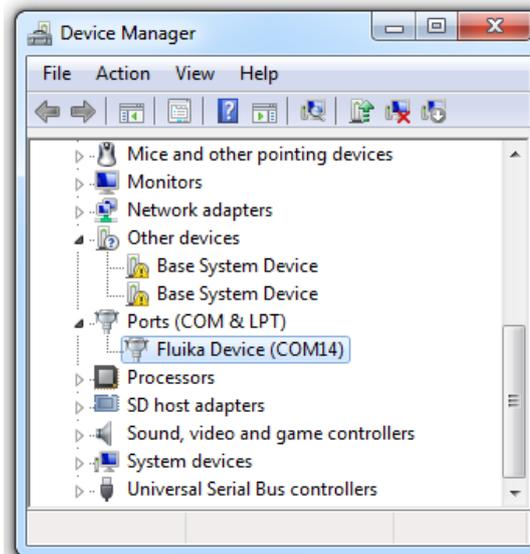

Since the driver is not digitally signed, Windows® will display warning. Choose **Install this software anyway**.

Now Windows® shall complete installation.

If you return to Device Manager, you should find **Fluika Device** in section **Ports (COM & LPT).** This indicates that the device has been successfully installed. Notice the com port name/number (eg. COM14 on the image below)
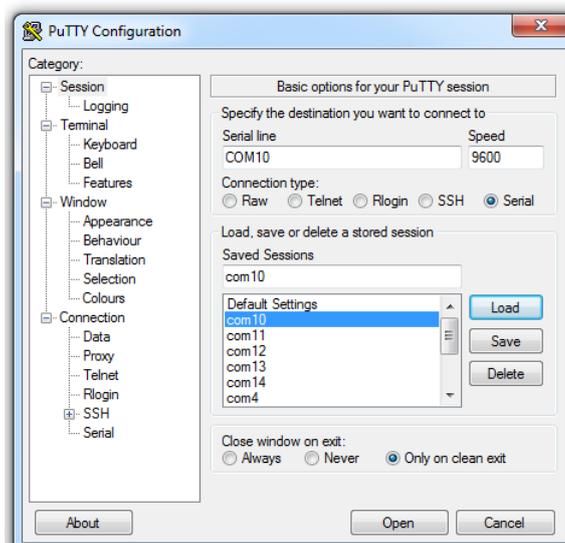

TESTING ON WINDOWS

You can download graphical application software to test and operate our components from our web site. These programs are described in their respective user guides.

Since Fluika Devices appear as COM ports, fastest testing can be done using terminal program, such as Putty (Open Source program available www.putty.org) or HyperTerminal on Windows XP.

In order to open Fluika Device in Putty, choose **Connection Type: Serial**. Type COM port number into serial line (eg. COM10). Click **Open**. As it is virtual COM port other hardware parameters such as speed, handshakes etc. are irrelevant in case of Fluika Device. In terminal you can use command line syntax of the Fluika device. (eg. type "ls", in order to get listing of available commands)
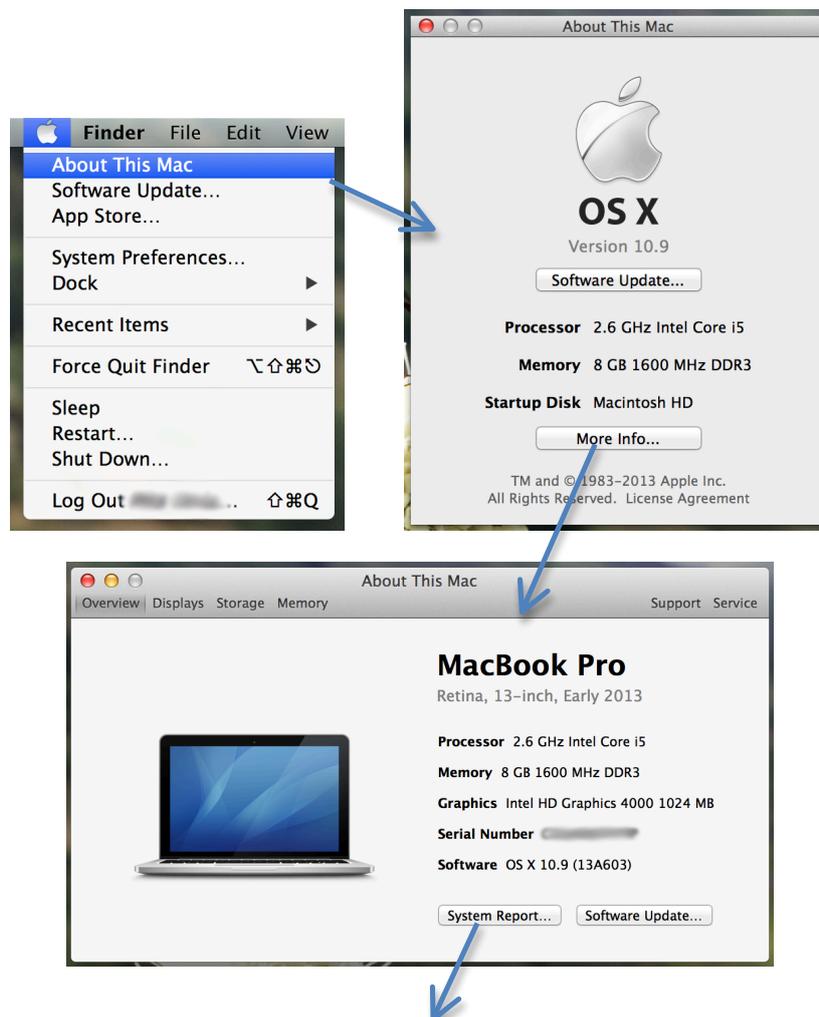
MAC OS X

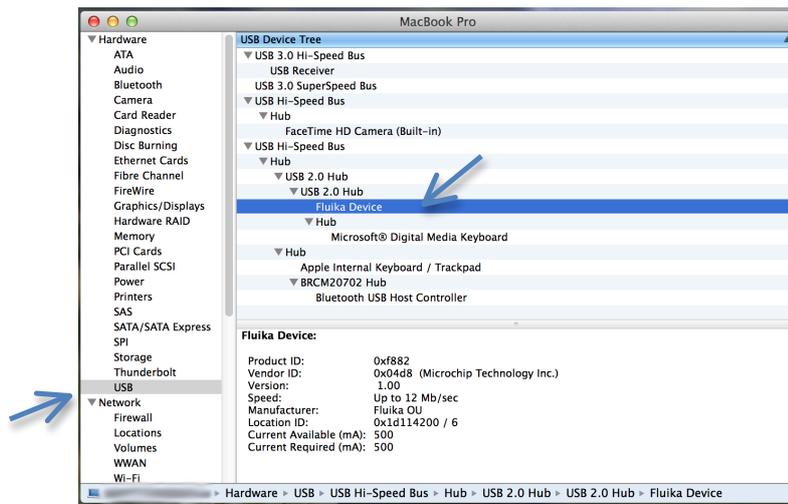Fluika device have been tested only on Mac OS X version 10.9

On Mac OS X Fluika devices **do not required driver installation**. Device is recognized automatically as COM port/modem.

Connect Fluika device to your Mac.

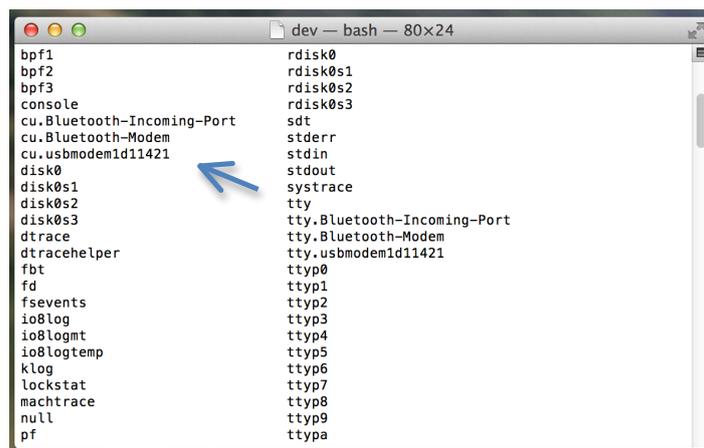Check device by choosing **main menu (Apple)** → **About This Mac** → **More Info …** → **System Report**.

Then choose from the tree **Hardware → USB → Fluika Device**

It is possible to see Product ID and other information.

To test device open **Terminal** and go to **/dev/** folder by typing cd /dev

Look devices by typing: ls

Device should be named al.a. **cu.usbmodem**…

To connect to the device type screen /dev/ and device name. For example:

Once screen opens type some commands for Fluika device, for example: ls or dev.

```
-[FLUIKA DEVICE. SN:010002]---
- For list of commands type: ls
-------------------------------
>ls
ls
sn
dev
setp
getp
geta
smrt
gmax
gmin
conf
stp
hys
>dev
(DEV:PG500)
>sn
(SN:010002)
>geta
(A:2707)
>
```