QUICK START GUIDE: NivuFlow Stick

This guide serves as a quick reference for using the NivuFlow Stick. It is for your convenience and is not intended to replace the information found in the Instruction Manual.

Assemble the NivuFlow Stick by connecting the extension poles, clamp on the control box, then connect the sensor cable to the control box. A manual rule can be found on one side of the pole and can be used as a guide for correct assembly.

Power on unit and the green indicator light should illuminate and pair with your phone or tablet – it is recommended that the initial setup is carried out prior to the site visit.

On the tablet or phone open the Wi-Fi settings and find the Nivus S/N number in the list of Wi-Fi networks (SSID and password is located on the side of the box attached to the pole). Enter these details and open your chosen web browser.

Enter the IP address: 192.168.1.1

The startup screen should look like this Fig.1.

Press the menu button this will take you to the main menu Fig.2.

Once the main menu has loaded press the application button Fig.2 to enter the application menu then Select measure place Fig.3 to input site details, i.e. site name, width, offset, and measurement parameters including both bank styles, Fig4.

Under normal uses use survey mode, other modes like "channel" etc require manual measurement of the pipe/ flume to work, survey mode maps the riverbed for you using depth and flow.

In practice, a tape measure / rule is usually fixed over a body of water to simplify the approach to the predefined measurement points and are **always** measured from the **left** bank looking upstream, Fig 5.

Fig.1

Fig.2

Fig.3

Fig.4

Fig. 5

Measure the width of the water only and enter this into the width section, Fig 5.1.

Once you have entered the water width you can secure the measuring tape or rule to the bank, measure from the start of your rule to the start of the water this is your offset, input this measurement into the offset. the Nivuflow stick will calculate the measurement points, Fig 6.

After entering the correct width and offset move on to selecting the bank types these are free, wall, and slope this needs to be done for both the left and right banks, when you finish entering these details press "BACK", Fig. 7.
(do **not** change K factor the default is **80%**)

This will show the message measurement place parameters changed, recalculate measurement points? If all data is correct, press "YES", Fig. 8.
This will then show the save parameters icon, press "YES", 'Fig. 9.
You will then get a message reading "successful!", press "OK", Fig. 10.
You will then be asked to "load measurement place settings?" select "YES", Fig.11.

Once loaded you will be taken back to the first screen with updated measurement points, Fig.12. Now you can get ready to start measuring, the first measurement point is shown on your screen (always start from the left bank and point sensor head upstream) our example starts at 62.1CM for position 1, this will change for each measurement point and will compensate for the offset.
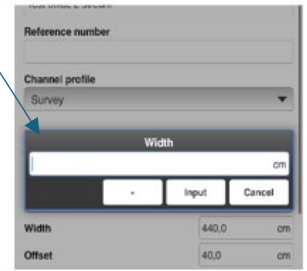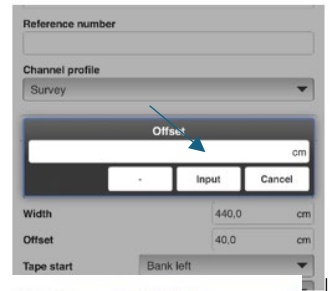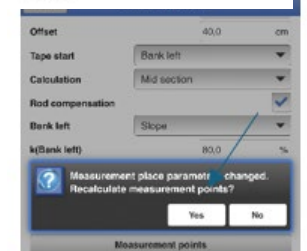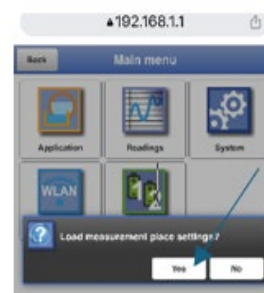

FIG.5.1

FIG.7

FIG.8

FIG.
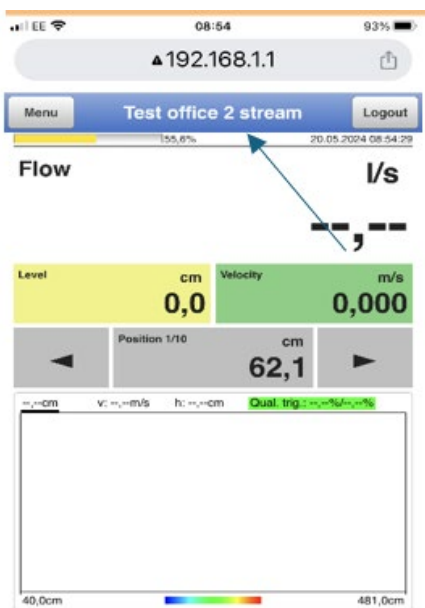

FIG.12

FIG.11
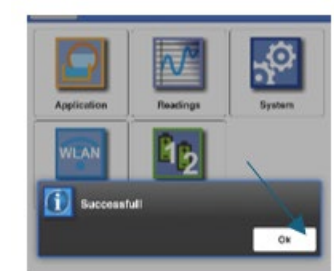
FIG.10

Press the "position" button to start measuring, a countdown will start, hold the NivuFlow stick upright & level whilst remaining still and stable using the built in "bubble levels" until the countdown has finished, Fig 13. The NivuFlowstick will tell you where the next measuring point is. Repeat the process until all measurements have been taken.

After completion please clean, dry and disassemble the equipment, then store in the hard case, this will ensure the NivuFlow stick is protected for transport.
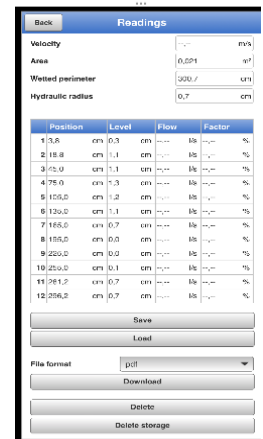

FIG.13

Sensor placement guide
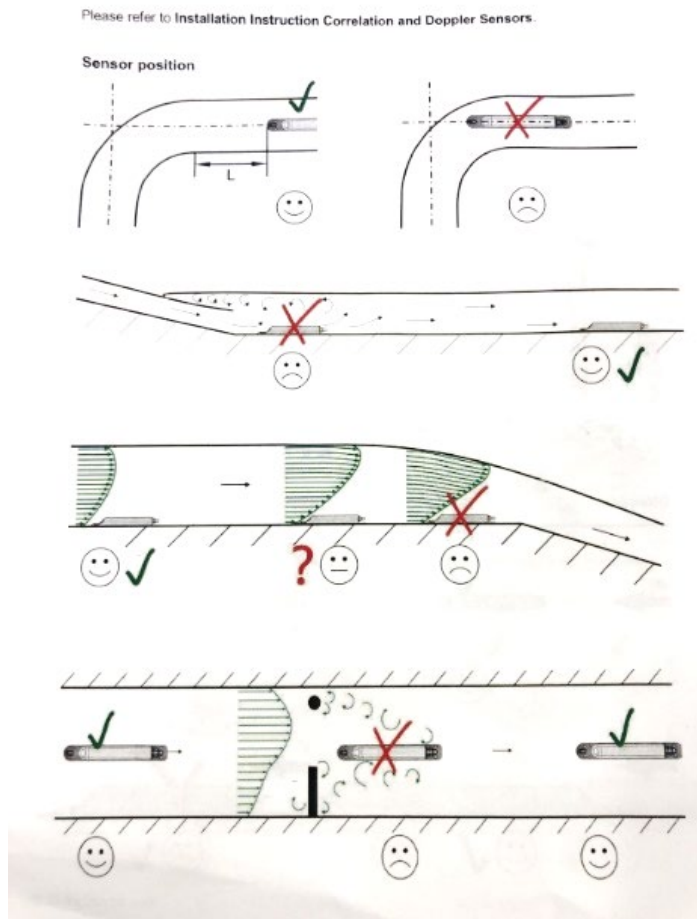
Removing Data

Open main menu and select "readings", Fig 14.
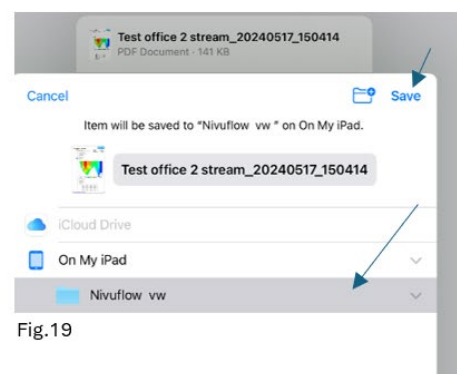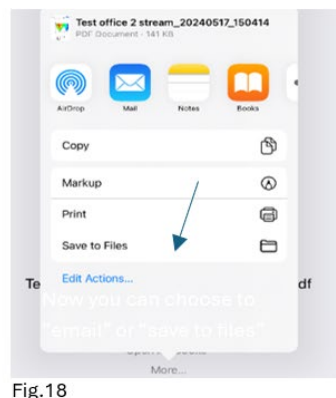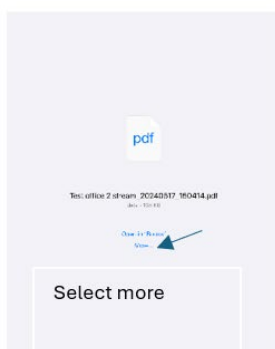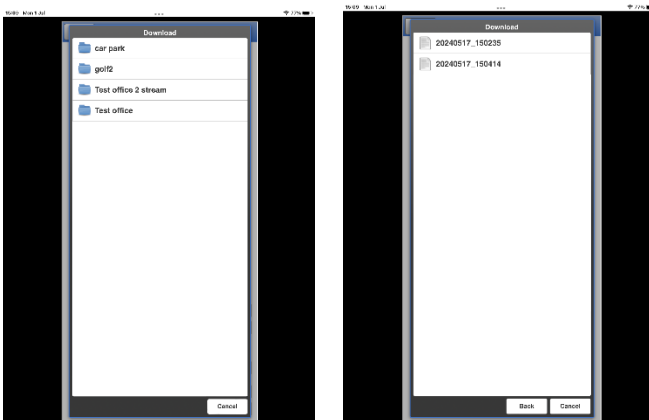

FIG.14.

Once the "readings" menu is open, click "download", Fig 15.

FIG.15.

Once in the download menu, select the folder that you chose to save your data, Fig.16.

Once the folder is open, select the file required, press once and wait 30seconds as it requires a short amount of time to move to the save menu, Fig.17.

Fig.16

Fig.17

Fig.18

Fig.19

Select folder to save the file to e.g. NivuFlow VW, then press "SAVE" in the top corner, Fig.19.