HydrINS2 / HydrINS 2 Mini

Overview of velocity profiling with Winfluid
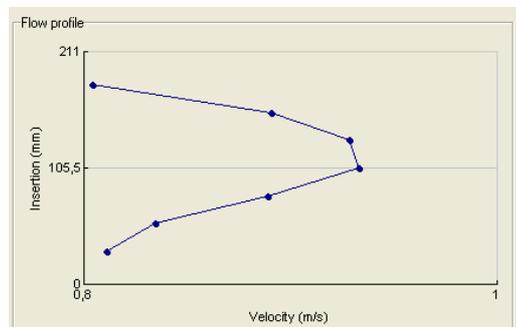
Review	Date	Redaction	Changes	Visa
00	08/03/2011	MRE	Creation	

Summary

Table of figures

1 Introduction

Editing velocity profile allows to calculate precise profile coefficient and then to obtain best velocity measurement.

2 Velocity profiling software launching

It can be lauched from two ways :

From Expert mode
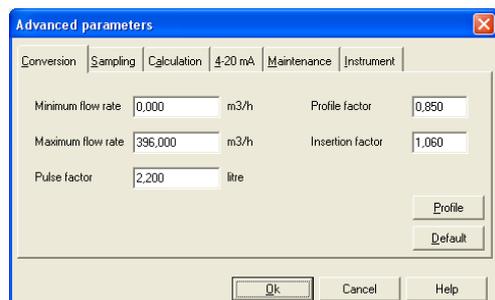
Figure 1 : Launching from expert mode during probe programming in Winfluid

From Winfluid main window
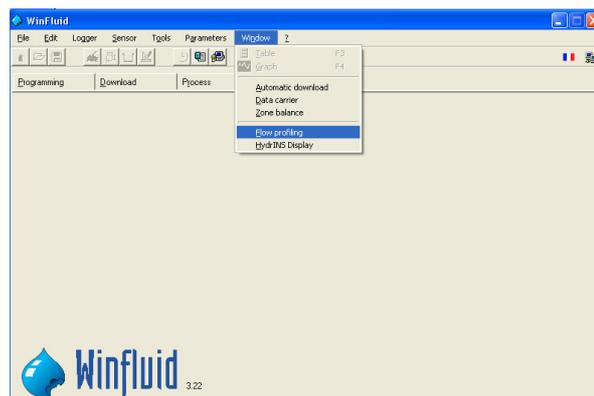
Figure 2 : Launching from Winfluid main window

3 Software configuration
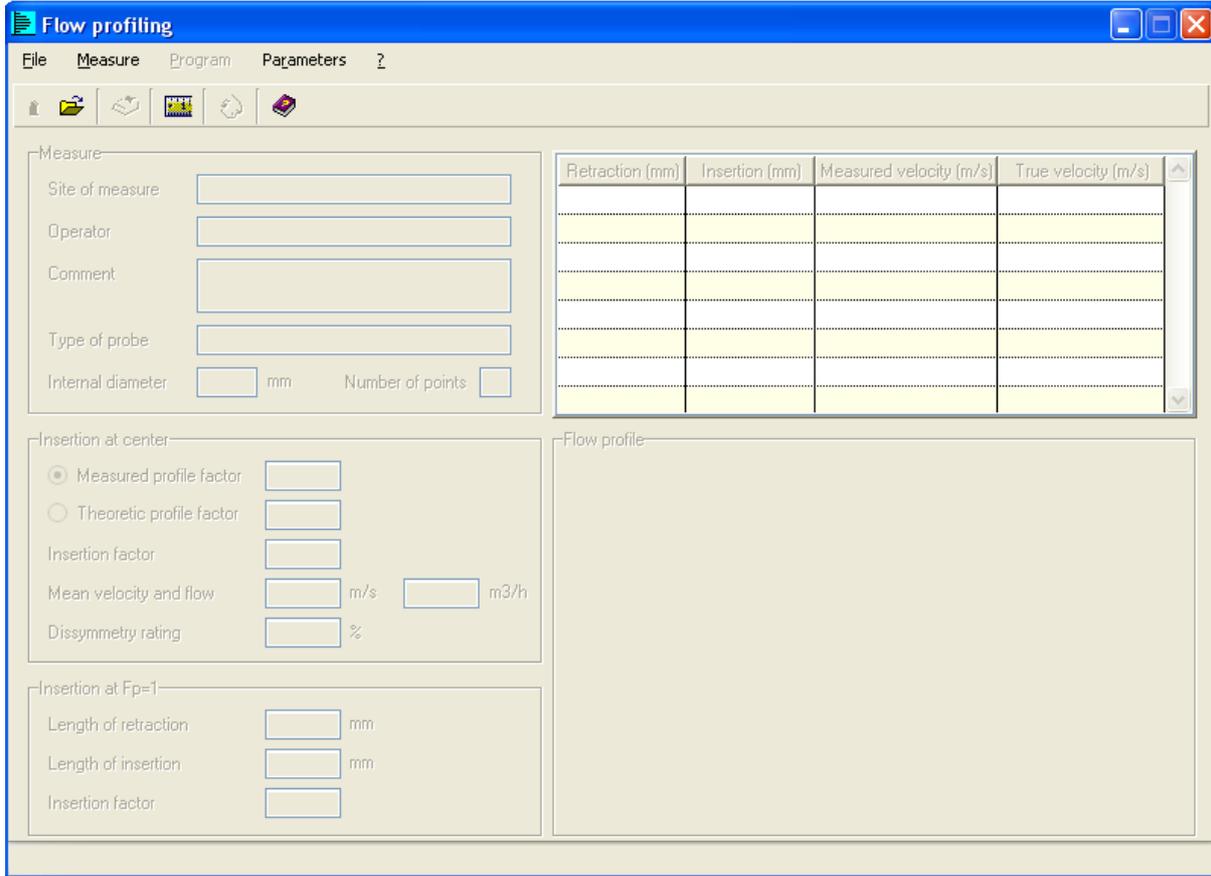
Figure 3 : Profile editing window

Click on **Parameters** in toolbar to configure program parameters :

Click on OK to validate

To achieve profile measurements, click on icon.
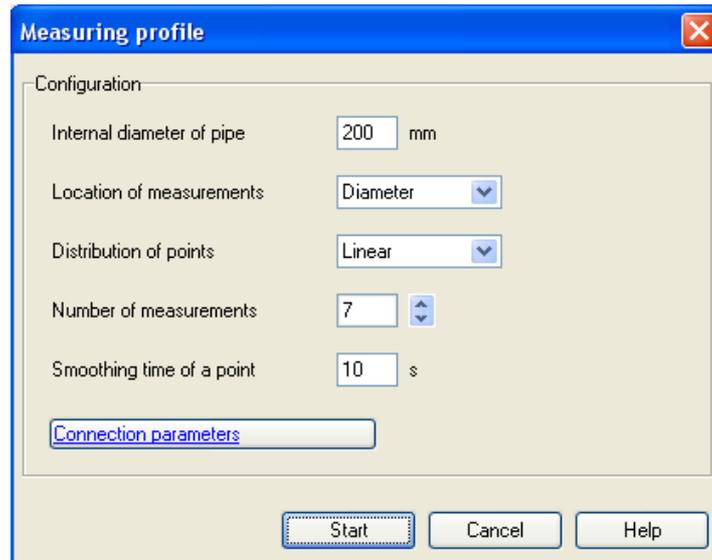
Figure 4 : Parameters for flow profiling

Connect **HydrINS 2/HydrINS 2 flowmeter** to PC using CC_HYDA3 cable.

Figure 5 : Connection of CC_HYDA3

Insert the probe at the bottom of the pipe
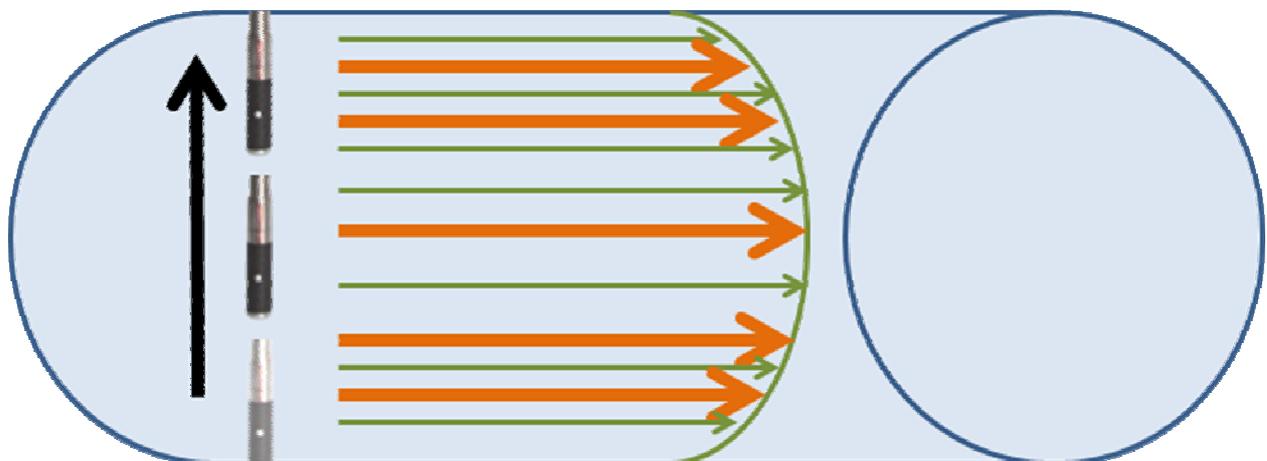
Figure 6 : Way for velocity profiling

Click on **Start**.

Figure 7 : Velocity profile measurement window

Click on **measurement** for the 7 points of the profile

After validation, the following window is displayed :

Figure 8 : Profile plots validation window

A dissymmetry factor is used to validate or invalidate the profile (profile is valid with less than 5 % of dissymmetry)
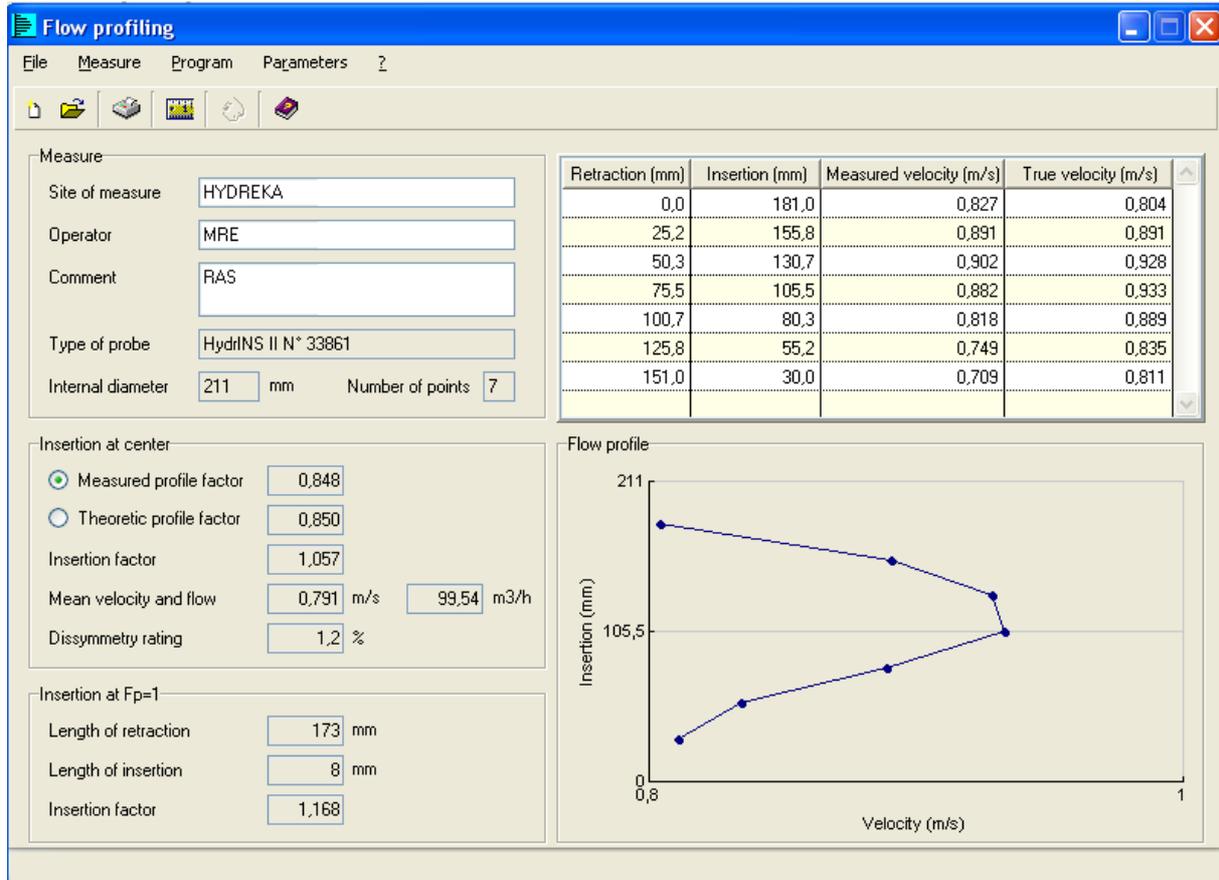
Figure 9 : Profile results overview window

Profile can be saved by clicking on **File > Save**

4   Using profile

Each profile is saved in a database, and is useful to :

- Programming optimum configuration of HydrINS 2 / HydrINS 2 Mini probe in Winfluid.

- Profile printing in pdf, word excel
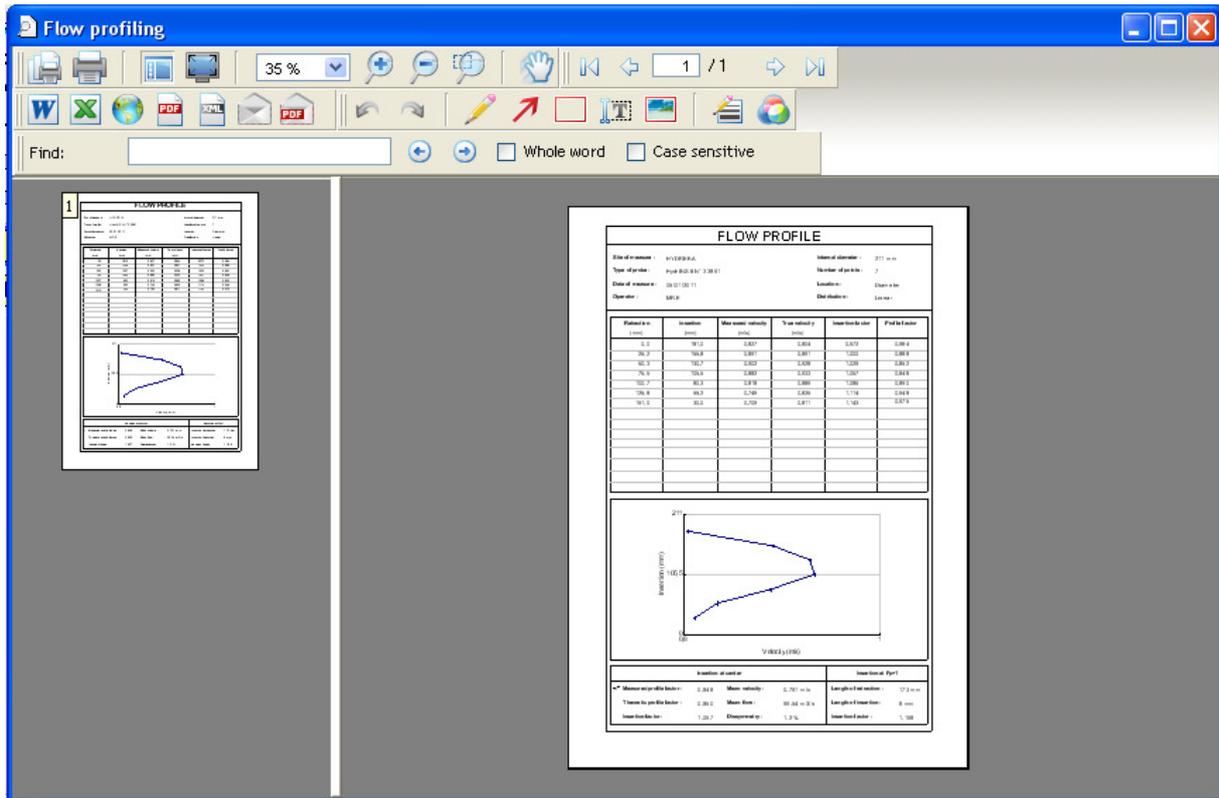
Figure 10 : Velocity profile printing
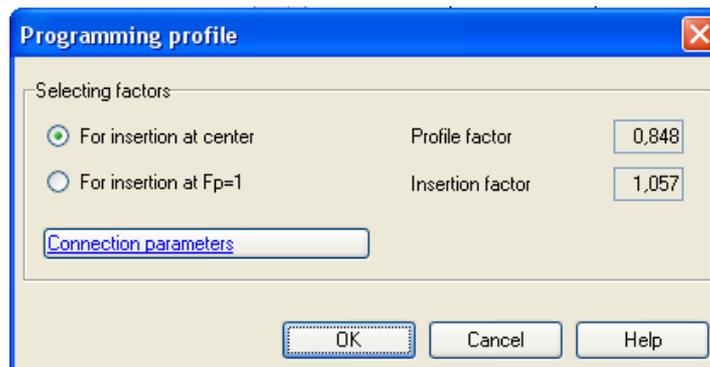
Figure 11 : HydrINS 2 / HydrINS 2 Mini programming

5   Import in Winfluid

The following parameters can be imported in Winfluid in order to program measurement parameters of the probe.

- Pipe Internal diameter

- Probe position

- Insertion factor

- Profile factor

The prerequisite is to launch profiling software from Expert mode.

NOTES

HYDREKA

34, route de Saint Romain – 69450 ST CYR AU MONT D'OR – France

Tel : +0033 (0)4 72 53 11 53 – Fax : +0033 (0)4 78 83 44 37

Email : hydreka@hydreka.fr or export@hydreka.fr