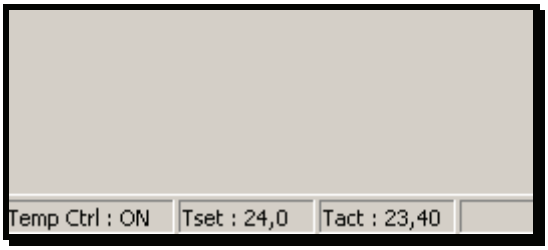
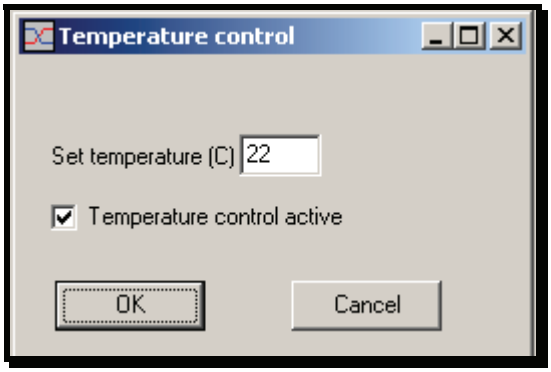
Quick Start

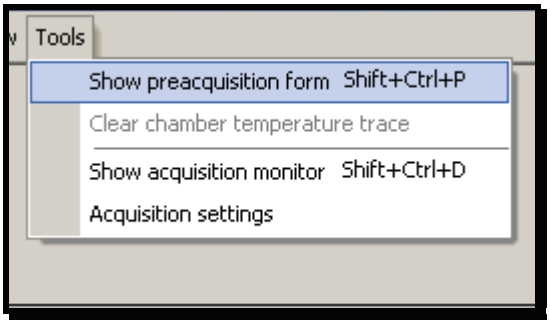
The most important steps to a successful measurement



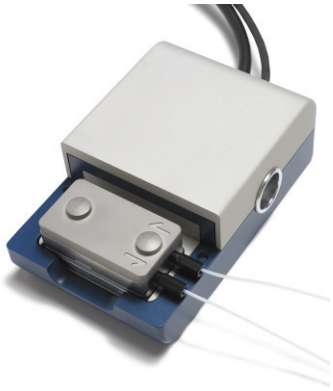
1 Switch the electronics unit on, and start QSoft 401. Wait a few seconds for the program to establish connection to the instrument. When "Tact" shows a value on the information bar below the main screen, the connection is established.



2 Click on the temperature info bar to access the **Temperature Control** settings window.

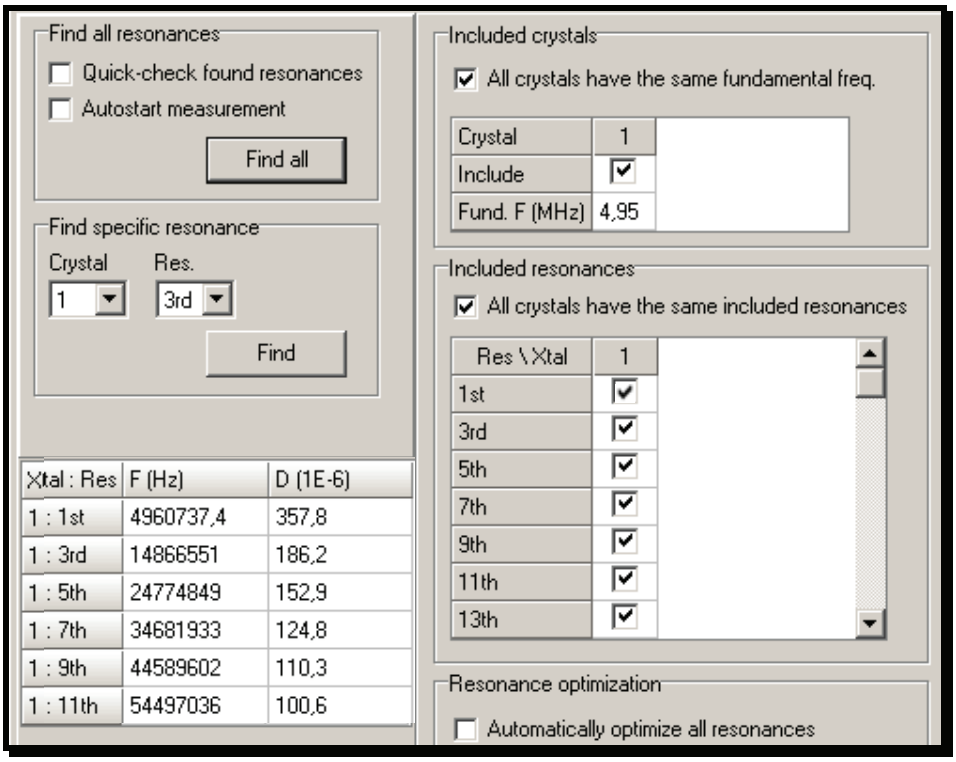


3 (Optional) To display the temperature stabilization before starting the measurement, the "Preacquisition form" could be opened.



4 Connect tubing and pump to the flow module.

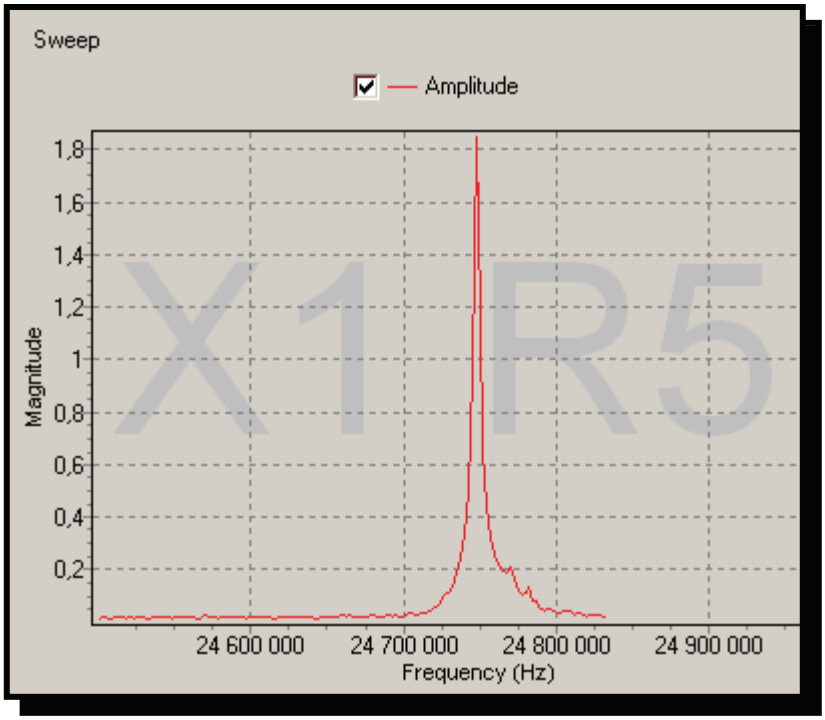
- Before inserting a sensor crystal, make sure that the o-ring is lying flat in its bed.
- Insert the sensor crystal with the backside electrode positioned as the symbol indicates; close the flow module (finger tight) and place on chamber platform.
- For liquid measurements, fill the system with the start solution/ buffer and make sure no air is introduced.



5 In the main menu, go to **"Acquisition"** and then **"Setup Measurement"** and pick the overtones to be measured, by ticking the boxes.

- For standard measurements, make sure **"Automatically optimize all resonances"** is checked.
- Start searching for the resonances by clicking **"Find all"**. *D* values in water should be within 20% from the typical values listed above. A larger deviation from these values indicates:

- The crystal might be incorrectly mounted in the flow module – check carefully that it is lined up and lies flat. A good sensor should show clean peaks as the one to the right:
- The crystal might be damaged – try a different crystal.
- There's a trapped air bubble over the sensor surface



6 Start measuring by clicking **"Start Measurement"** under **"Acquisition"** in the main menu.