



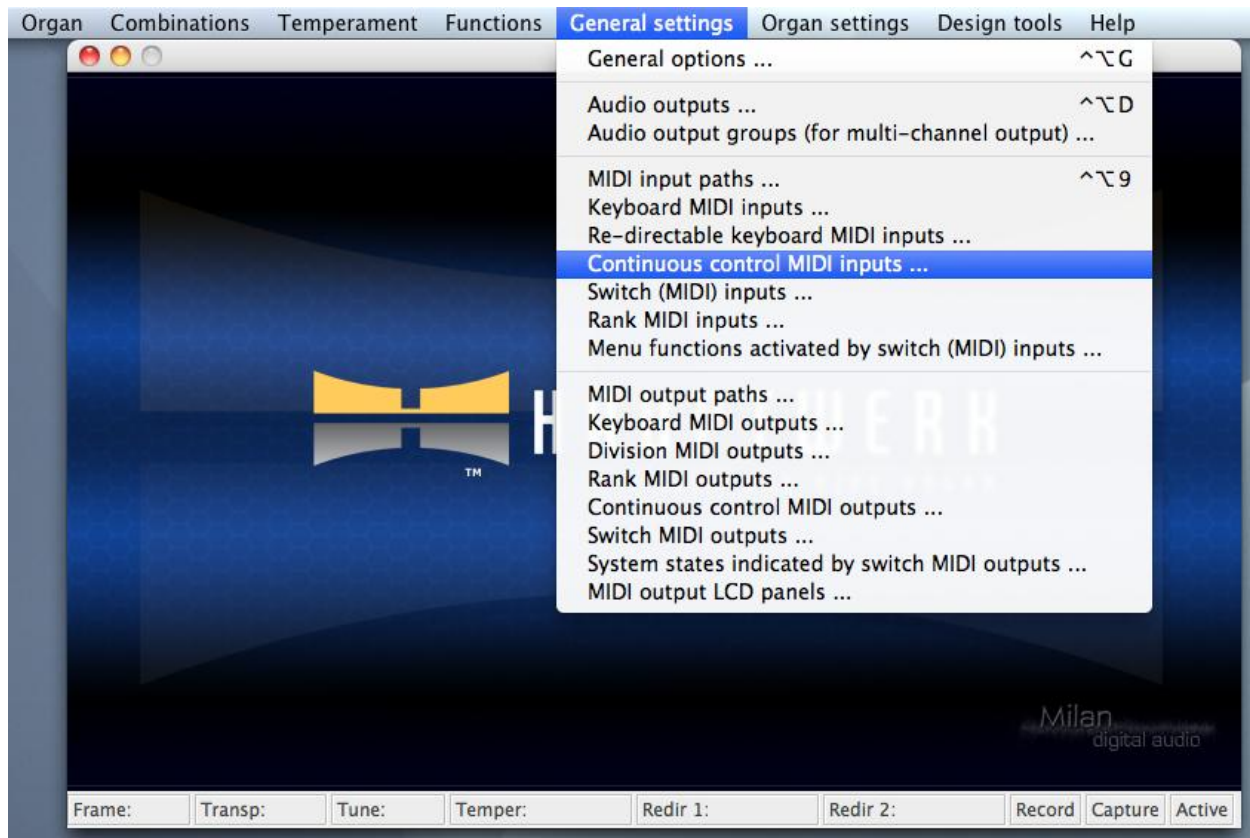
MIDI Continuous Controllers

(Control Change)

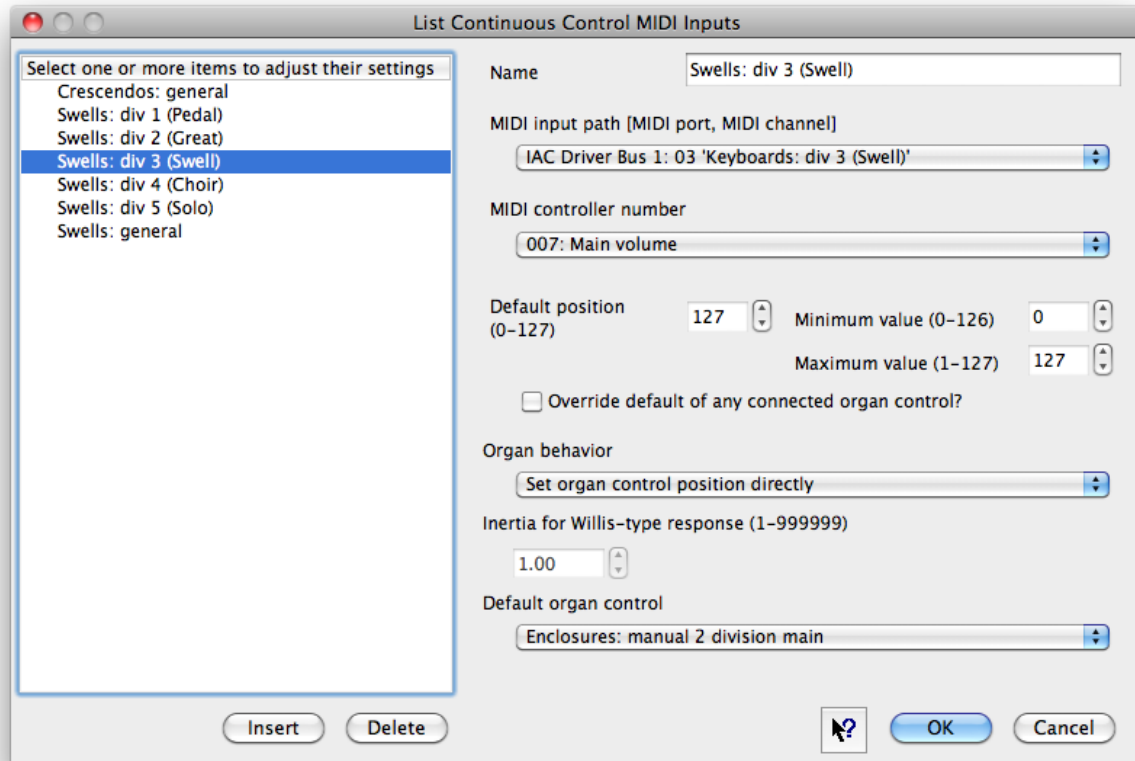
Connecting continuous controllers to expression pedals

Hauptwerk version 3 uses continuous controller MIDI data (control change) for controlling virtual expression pedals for swell boxes, crescendo pedals and various other virtual controls. This tutorial will explain how to set up your hardware to connect to a virtual expression pedal using the provided St. Anne's organ as an example. Use these same steps for connecting to crescendo pedals or other sliders that a virtual organ may feature.

1. Run Hauptwerk and choose 'General settings | Continuous control MIDI inputs...'



2. The following screen will appear:



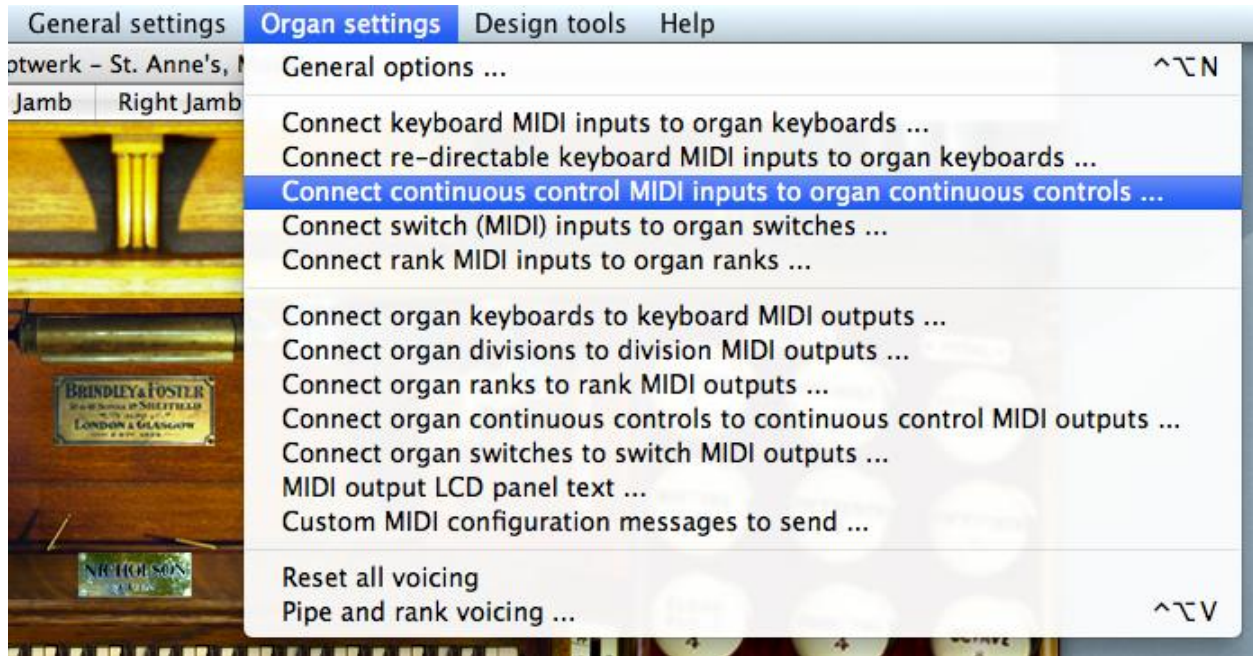
Set the MIDI input path to match the MIDI input that (channel and port) your external hardware controller transmits to your computer for each input that you wish to have a controller connected to.

Then set the MIDI controller number to match your external hardware controller type. Most common controller types are 007: Main Volume and 011: Expression. Refer to the user manual for your hardware or use the Hauptwerk MIDI logging utility to determine the MIDI data your hardware sends.

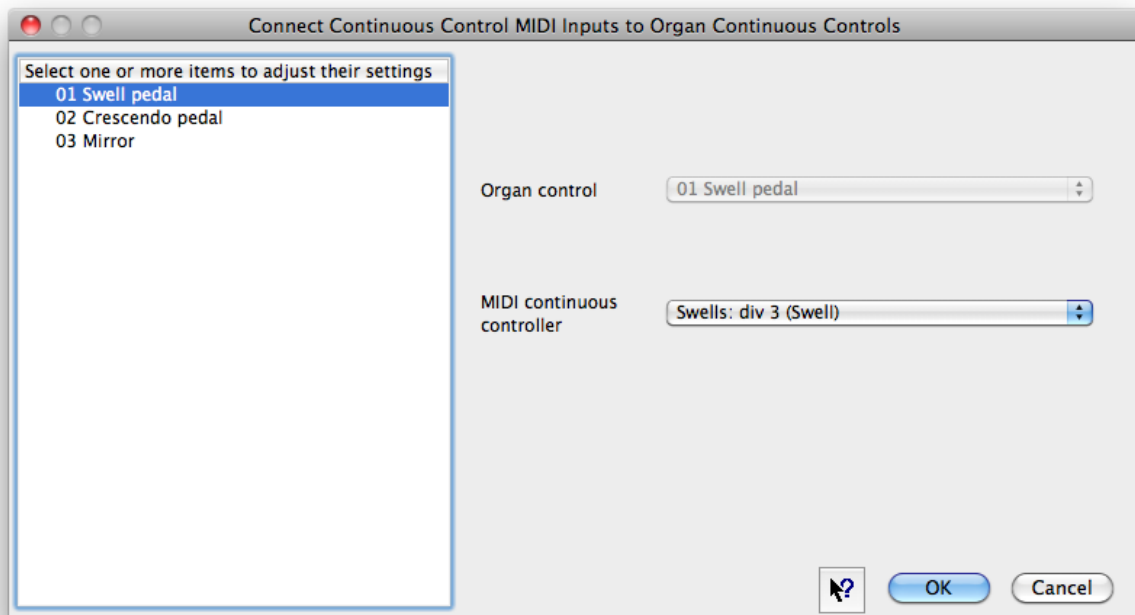
Note that most expression shoe potentiometer encoders do not transmit the full range of continuous control data from 0-127. To accommodate for this you may adjust the Minimum value (0-126) and Maximum value (1-127) that your hardware sends which will allow Hauptwerk to scale the ranges and allow full movement of the virtual control.

Once you have set the above parameters click OK.

3. Click 'Organ settings | Connect continuous control MIDI inputs to organ continuous controls...'



4. The following screen will appear:



Select the virtual control you wish to configure on the left side list by clicking on the name (01 Swell pedal). On the right side click the dropdown menu and select the MIDI continuous controller input that you set up in the previous step under the General settings menu (Swells: div 3 (Swell)). This step maps your hardware input to the virtual control you have selected.

Once you have finished this step click OK.

You should now be able to control the virtual control from your external controller in real time. Repeat these steps for other controllers you may like to configure.

If you wish to control multiple virtual controls from a single external control Hauptwerk allows you to map a single MIDI continuous controller input to more than one virtual control. This can be especially useful when an instrument consists of more virtual expression pedals than there are physical expression pedals on your console. Simply assign the same MIDI continuous controller in step 4 to more than one item in the left side list.