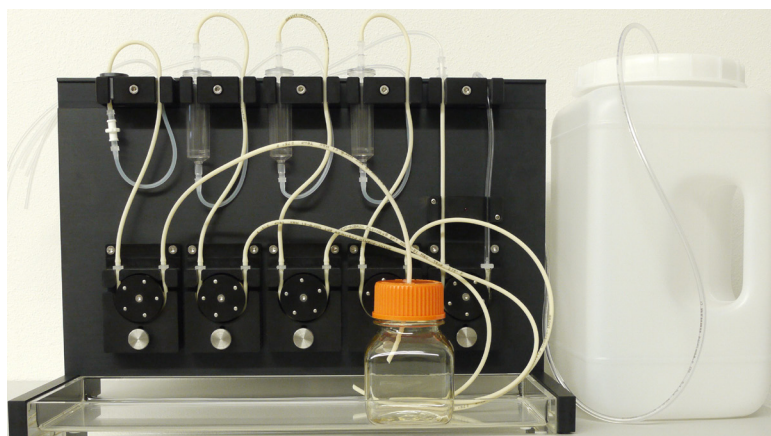


Peristaltic Perfusion System PPS5 with Software Control

Peristaltic Perfusion System with five Peristaltic Pumps and TTL Connectors for Synchronization



Please connect the PPS5 to the power outlet (24VDC) and via USB 2.0 (type A -B) cable to the computer. Connect the BNC connectors P1 to P4 and W for synchronization with peripheral devices, if necessary.



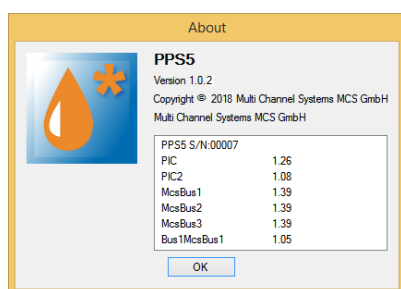
Technical Specification

Operating temperature	10 °C to 40 °C
Storage temperature	10 °C to 50 °C
Dimensions (H x W x D)	260 x 385 x 180 mm
Weight	7.8 kg
Number of perfusion pump inlets	4
Perfusion pump outlet	1
Maximum perfusion rate inlets	30 ml per minute
Maximum perfusion rate outlet	50 ml per minute
Bubble detector	optical fluid flow control
Number of digital input connectors	5
Configuration of the BNC connectors	Outer ring: Ground Center: TTL signals from min. +3 V to max. +5 V
Computer connection	USB 2.0
Power supply	100 to 240 VAC @ 47 to 63 Hz
Power consumption	10 W
Capacity of compound bottles	150 or 500 ml
Capacity of the waste bottle	4400 ml

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Control Software PPS5 for Peristaltic Perfusion System

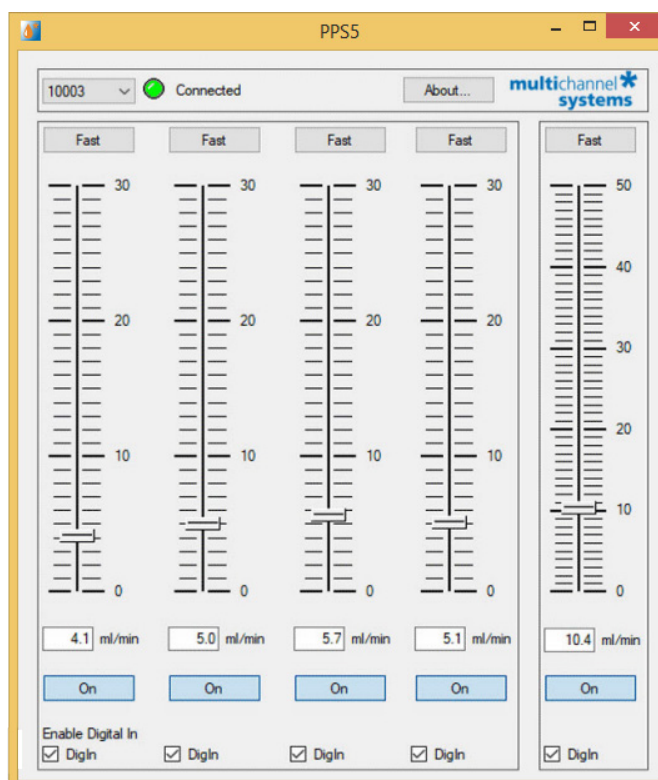
Peristaltic Perfusion System with five Peristaltic Pumps
and TTL Connectors for Synchronization



Please install the Control Software PPS5.

Main Window

The main window of the PPS5 software is divided in five sections, one ruler for each of the five peristaltic pumps. As soon as the device is connected, the LED symbol appears green. Click the "About" button for information about software version and serial number.



Operation of the PPS5 Software

Please read also the PPS5 Manual: <https://www.multichannelsystems.com/downloads/documentation>

On the left side of the main window you can control the four peristaltic pumps for the inlet tubes, connected to the compound bottles, independent from each other. The fifth peristaltic pump for the outlet tube, connected to the waste bottle, works additionally.

Please select the velocity of fluid transport via the rulers or type the desired value into the small window below. The unit is milliliter per minute (max. 30 ml/min or the inlets, 50 ml/min for the outlet). Click the button "On" to start the peristaltic pump, click the button again to stop the pump. It is possible to change the velocity via ruler or by writing into the window while the pump is running.

Clicking the button "Fast" accelerates the rotation of the pump as long as you press the button. This feature can be used for rinsing the tubes, for example.

Enable the digital inputs via "Enable Digital In" check boxes to allow TTL signals from peripheral devices for synchronization. Please switch the respective pump to "On", which should receive the digital pulse and choose a velocity, otherwise the TTL signal cannot be applied.

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