

BMT CONTROLLERS

Controllers

Start networking fluidic experiments

These controllers allow for operation as a stand-alone solution by connecting a monitor and input devices directly to the device connections (HDMI and USB). Program sequences can be loaded via USB sticks and started and stopped using the control buttons.

Several controllers can be connected to a fluidic network via LAN and also wirelessly via Wi-Fi. The simple programming of complex processes, over all connected controllers in the network, can be done centrally using the BMT software.



CON-DC



CON-SP



CON-PZ

SPECIFICATIONS

	CON-DC	CON-SP	CON-PZ
Number of Ports	5	2	up to 4
Input voltage	24 VDC (1.5 A)		
Output signal	3 - 24 VDC (optional Xavitech Black Edition at 5th port)	0 - 440 mA stepper motor control	50 to 340 Vp-p with up to 60Hz
Communication interfaces	Wi-Fi, LAN (10/100) Wi-Fi, LAN (10/100/1000)		
Additional connections	HDMI, 4 x USB, I2C prepared		
RAM	1 GB 2 GB 4 GB		
CPU	1200 MHz 1500 MHz		
Dimensions	approx. 172.00 x 100.00 x 65.00 mm		
Features	<p>Control of DC-pumps or DC-valves individually configurable per port connection</p> <p>Valves:</p> <ul style="list-style-type: none"> Using of holding voltage Latching valve control <p>Pumps:</p> <ul style="list-style-type: none"> Change in flow direction: CW, CCW PWM control Linear flow control programming with start and end parameters 	<p>Parameters for stepper motor pumps can be individually configured.</p> <ul style="list-style-type: none"> RPM, PPS and single step control Step size: full step, 1/2, 1/4, 1/8, 1/16, 1/32, 1/64 and 1/128 Change in flow direction: CW, CCW Linear flow control programming (RPM, PPS) with start and end parameters 	<p>Every port can be equipped with one Takasago piezo driver MPD-200A, which allows the control of up to four times two piezo pumps in parallel.</p> <ul style="list-style-type: none"> Output voltage: 50 – 340 Vp-p Output frequency: 1 – 60Hz Linear flow control programming with start and end parameters

BMT CONTROLLERS

Software
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For the development of new devices or in research, new systems for controlling a wide variety of liquids are continuously being developed. Our fluidic systems are designed to meet the requirements of different combinations of fluidic components and shorten the development time of new ideas and solutions.



General program features

- Loading and saving of program sequences over all connected controllers
- Operate directly using the software on the controller
- Starting programs with a USB stick at the controller (stand-alone solution)



Fluidic network

Combine different BMT controllers in a fluidic network using LAN cable or Wi-Fi



Software controlled & programmable

Easily program fluidic operations and control all devices using the BMT PC software



Stand-alone solution

Start fluidic programs directly at the controller from a USB stick

The different BMT controllers can be connected to each other via a network and programmed centrally using the BMT software. In this way, a large number of pumps and valves can be easily combined and many different processes can be created.



The BMT software is constantly being updated with new features. You can find more information about the software solution in our online manual: <https://wiki.pumps-valves.eu>.