

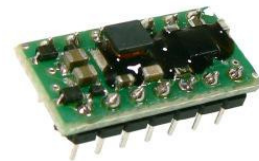
## Equipment for the Bartels Micropumps

Different equipment for the optimal operation as well as for the first evaluation of the Bartels micropumps is offered.

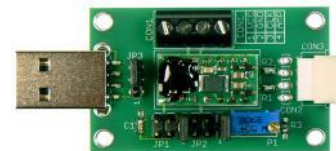
<b>mp-x controller</b>	Order code: mp-x
Access to the full range of driving parameters. A system for the professional evaluation of the micropumps mp5 or mp6.	
Dimensions	approx. 7.5 x 16 x 20 cm <sup>3</sup>
Pumping media	liquids or gases
Adjustable parameters	amplitude/frequency/signal form
Amplitude range	0 - 250 V
Frequency range	0 - 300 Hz
Signal form	sine, rectangular, SRS
Power supply	mains adaptor
Current consumption	500 mA at 7.5V
Max. flow rate (typ.)	6 ml/min (DI-water, SRS, 250 V, 100 Hz)
USB-Port incl. Driver	setting parameters via the PC of the user
Pump connectors	for 1 - 2 mp5 or one mp6



mp-x



mp6-OEM



mp6-EVA

<b>mp6-OEM controller</b>	Order code: mp6-OEM
The controller drives the mp6 at adjustable performance in a package similar to an integrated circuit. It enables integration of a small pump driver into the system electronics or on a PCB.	
Dimensions	1,05 x 2,05 x 0,90 cm <sup>3</sup>
Pumping media	liquids or gases
Adjustable parameters	amplitude / frequency
Amplitude range	100 - 230 V
Frequency	25 - 120 Hz
Signal form	similar to rectangular
Power supply	2,5 V- 5 V DC
Current consumption	approx. 40 mA at 3 V
Max. flow rate mp6 (typ.)	4,5 ml/min

<b>mp6-EVA evaluation board</b>	Order code: mp6-EVA
The evaluation board enables the simple use of the mp6-OEM controller. Next to preset standard parameter (235 Vpp, 100 Hz) the mp6-EVA also allows to adjust the pump parameters. As the supply voltage of the module can be provided via USB, just attach it to a USB power supply and start the evaluation. Alternatively it can also be supplied by a 2,5 - 5 V voltage source.	
Dimensions	6,5 x 3 x 2 cm <sup>3</sup>
Pumping media	liquids or gases
Adjustable parameters	amplitude / frequency
Amplitude range	100 - 230 V
Frequency	25 - 120 Hz
Signal form	similar to rectangular
Power supply	USB; 2,5 V- 5 V DC
Current consumption	approx. 40 mA at 3 V
Max. flow rate mp6 (typ.)	4,5 ml/min



<b>mp6-con connection cable</b>	Order code: mp6-con
Connector for mp6 to mp-x	
Molex FCC 1,25 mm pitch, 85 cm cable, Binder 620 connector	

<b>mp6-mol connector</b>	Order code: mp6-mol
Connector to micropump mp6, for custom made cabling	
Molex FCC 39532045 1,25 mm pitch	

<b>mp-cv check valve</b>	Order code: mp-cv
The passive check valve eliminates the back flow of the pumping medium, when the micropump is switched off. It can be connected via tubing.	
Dimensions	21 mm x 5,5 mm (length x span width)
Materials in contact with the pumped media	silicone, stainless steel
Fluidic connectors	tube clip inner diameter: 1.9 mm length: 5.6 mm
Cracking pressure	typical < 35 mbar
Max. back pressure	500 mbar
Typical leak rate	< 20 µl/h for liquids @ 500 mbar

<b>mp-t tubing</b>	Order code: mp-t
Inlet/outlet compatible Tygon® tubing	
Inner diameter	1.3 mm

#### Evaluation Set:

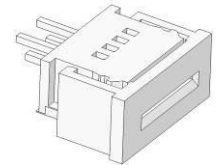
<b>mp6-go! Set</b>	Order code: mp6-go!
The evaluation of the mp6 can be started directly with this set. It contains:	
3 micropumps mp6	
1 mp-x controller including connection cable for 1 mp6	
1 meter mp-tube	

The offered equipment is meant to assist your evaluation process. After the feasibility of the micropump in the customer specific application is proved, an adequate miniaturization of the controller and the equipment can be carried out. The design of a customer specific controller is part of the services offered by Bartels microComponents.

Please contact us, if we can support you in choosing the suitable equipment.



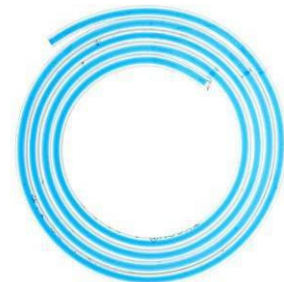
mp6-con



mp6-mol



mp-cv



mp-t



mp6-go! Set

