

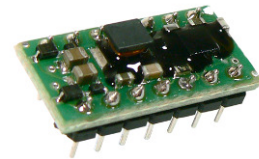
Equipment for the Bartels Micropumps

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

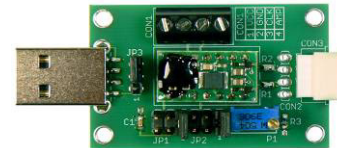
mp-x controller	Order code: mp-x
Access to the full range of driving parameters. A system for the professional evaluation of the micropumps mp5 or mp6.	
Dimensions	approx. 7.5 x 16 x 20 cm ³
Pumping media	liquids or gases
Adjustable parameters	amplitude/frequency/signal form
Amplitude range	0 - 250 V
Frequency range	0 - 300 Hz
Signal form	sine, rectangular, SRS
Power supply	mains adaptor
Current consumption	500 mA at 7.5V
Max. flow rate water (typ.)	mp6: 7 ml/min (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/mp6-pp



mp-x



mp6-OEM



mp6-EVA

mp6-OEM controller	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 ³
Pumping media	liquids or gases
Adjustable parameters	amplitude / frequency
Amplitude range	100 - 235 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 water (typ.)	mp6: 4,5 ml/min

mp6-EVA evaluation board	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, partly by external tuning. As the supply voltage of the module can be provided via USB (no data interface), 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 ³
Pumping media	liquids or gases
Adjustable parameters	amplitude / frequency
Amplitude range	100 - 235 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 water (typ.)	mp6: 4,5 ml/min

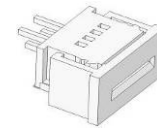


mp6-con connection cable	Order code: mp6-con
Connector for mp6/mp6-pp to mp-x	
Molex FCC 1,25 mm pitch, 85 cm cable, Binder 620 connector	



mp6-con

mp6-mol connector	Order code: mp6-mol
Connector to micropump mp6/mp6-pp, for custom made cabling	
Molex FCC 39532045 1,25 mm pitch 1 packaging unit = 10 pieces	



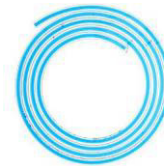
mp6-mol

mp-cv check valve	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



mp-cv

mp-t tubing	
Inlet/outlet compatible Tygon® tubing	
Inner diameter 1.3 mm	Order code: mp-t ID1.3
Inner diameter 1.02 mm	Order code: mp-t ID1.02



mp-t

mp-y tubing connector	Order code: mp-y
Y-connector for tubing, for the parallel use of two micropumps:	
Material	poly propylene (PP)
for tubing diameters of	1.3 – 2.6 mm



mp-y



Evaluation Sets:

mp6-go! Set	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-t ID1.3 tubing	



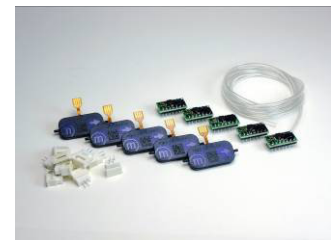
mp6-go! Set

mp6-basic Set	Order code: mp6-basic
The evaluation of the mp6 can be started directly with this set. It contains:	
3 micropumps mp6	
1 mp6-EVA evaluation board	
1 meter mp-t ID1.3 tubing	



mp6-basic Set

mp6-pro Set	Order code: mp6-pro
The evaluation of the mp6 can be started directly on the customer's circuit board with this set. It contains:	
5 micropumps mp6	
5 mp6-OEM controller	
1 pu mp6-mol connector	
1 meter mp-t ID1.3 tubing	



mp6-pro Set

mp6-pp-go! Set	Order code: mp6-pp-go!
The evaluation of the mp6-pp can be started directly with this set. It contains:	
3 micropumps mp6-pp	
1 mp-x controller including connection cable for 1 mp6-pp	
1 meter mp-t ID1.02 tubing	

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.

