

## Press Information

*Bartels Mikrotechnik at Microtechnology, Hanover 2007, Hall 15 – booth D34/15*

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### Backpressure Tolerant Micropumps

Bartels Mikrotechnik exhibits micropump mp5.2 with increased pressure properties

At this year's Microtechnology in Hanover Bartels Mikrotechnik GmbH first time presents its novel micropump mp5.2. The new micropump version opens up application areas with drastically increased pressure requirements which have been reserved to classical voluminous pumps so far. By consequent optimisation the achievable backpressure could be increased from 250 mbar by the factor of six to 1500 mbar. The maximum flow range remains unaffected at 5 ml/min. As the known pump mp5 the 'new type' can also be driven by the frequency and amplitude to fit the application requirements.

The pump can be used as stand-alone or integrated into systems as an OEM component. Or the customer realizes his own customer specific version according to his individual parameters. 'With the mp5 and mp5.2 the customer can identify the principal potential of the pumps on his way to the tailor-made component', illustrates Sales Manager Dr. Ulrike Michelsen. 'The micropump with its flexibility in adaptable parameters is a platform serving manifold requirements.'

#### About Bartels Mikrotechnik

Bartels Mikrotechnik is providing innovative technologies and product solutions spanning various branches from its MEMS background. The long time experience in micro systems technology, the technological know-how and the powerful affiliate network define the company. The unique selling proposition is the fruitful combination of MEMS solutions centre, excimer laser jobshop and own products.

At the Microtechnology in Hanover the creative competence of the company and the innovation potential of micro systems technology are presented through customer specific microfluidic products and own products as micropump and microvalves.

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### Next Generation Controller for mp5 and mp5.2

Bartels Mikrotechnik equips extended controller box with serial interface

A novel pump controller with integrated serial interface is presented by Bartels Mikrotechnik at the Microtechnology 2007 in Hanover. This additional feature of the Extended Box offers the full performance and controllability of all driving parameters as frequency, amplitude and signal shape via personal computer. Thus customers achieve higher flexibility in evaluation phase of mp5 and mp5.2. In combination with Labview or other programs timer operation or the combination of the micropump with a flow sensor to a closed-loop-system are possible now. The next development steps will be the miniaturization of the electronics and the integration of an USB interface.

The fields of application of the Extended Box are located in the evaluation of mp5 and mp5.2 for customer specific uses. After application specific parameters have been defined the miniaturization into a specific electronic module or an Application Specific Integrated Circuit (ASIC) can be accomplished.

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Front and rear view of the new extended box – now with serial interface.

Quelle: Bartels Mikrotechnik GmbH