

## Press Release

Bartels Mikrotechnik at domotechnica + components,  
**Hall 11.2 – Booth A 028.**

Bartels Mikrotechnik GmbH  
Emil-Figge-Str. 76  
44227 Dortmund  
www.bartels-mikrotechnik.de

Press Contact:  
Dr. Ulrike Michelsen  
Tel. 0231 / 9742-500  
Fax 0231 / 9742-501  
presse@bartels-mikrotechnik.de

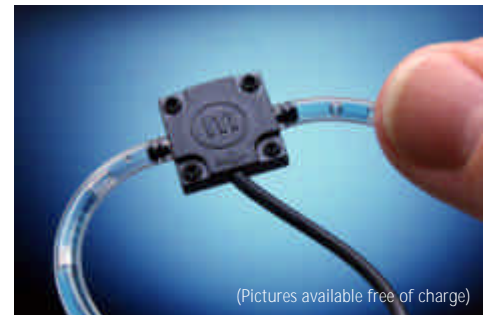
## Micropumps as a motor for innovations

**Micropumps in household appliances? Whether as flexible container system in electric irons for selective dosing of iron performance enhancers or fragrancing of clothing. In washing machines or tumble dryers, for delivery of detergent or softener. In coffee machines to add flavors at the push of a button. The vision one develops are versatile and stand for unique selling proposition and additional value for the user in tight markets.**

Here the new pump of Bartels Mikrotechnik GmbH, presented at *domotechnica + components* exhibits remarkable potential. Next to liquids also gases can be pumped. The serial produced pumps already passed the practical test in chemical analysis, medical technology, process technology and consumer goods industry and have become quite popular in this branches. "Thus we expect an increasing interest in micropumps in the biotechnology field as well", says Ron Meyknecht, product manager at Bartels Mikrotechnik.

### Reliable and Low in Price

The new micropump weighs only 0,8 g, is just as small as a cent-coin and copes with particle sizes up to 50 µm in fluids. It pumps not only liquids at flow rates of 50 nl/min to 5ml/min but also gases with rates of 50 µl/min to 15 ml/min. The complete pump is made up of injection moulded plastic (polyphenyl sulphon / polyimide) and powered by a piezo that works between two double valves. "Finally the easy design is the clou", states Meyknecht. According to this the pump is not only highly reliable but also – in mass-production - low in price. Because the



(Pictures available free of charge)

Small but smart: Serial produced micropumps like this one offer flow rates of 50 nl/min to 5ml/min. Produced in high volumes, it becomes absolute low in price and is due to this predestinated for disposable use.

Bartels Mikrotechnik GmbH

## Press Release

Bartels Mikrotechnik GmbH  
Emil-Figge-Str. 76  
44227 Dortmund  
[www.bartels-mikrotechnik.de](http://www.bartels-mikrotechnik.de)

Press Contact:  
Dr. Ulrike Michelsen  
Tel. 0231 / 9742-500  
Fax 0231 / 9742-501  
[presse@bartels-mikrotechnik.de](mailto:presse@bartels-mikrotechnik.de)

production requirements are easy and due to the injection moulding process very cost-effective for high volume applications.

Thus the disposable use of the hi-tech pumps is no problem anymore. For example the pumps could be directly integrated into a disposable container together with the medium to be pumped. The small size of the pump also matters for this kind of use. A product vision for the application in household appliances could be an adapter for electrical ironing consisting of a pumping unit and starch.

To offer the user the highest flexibility, Bartels Mikrotechnik designed its micropump as stand-alone product and integrated OEM-sub-module. Depending on the customers specific needs, the pump can be easily integrated into complex fluidic devices. Furthermore it is possible to optimise the pump to specific requirements.

### **Micropump Starterkits for New Customers**

Especially for new customers Bartels Mikrotechnik offers micropump starter kits with different electronic controls for testing purposes. Next to a battery supplied "basic" and PC supported USB control an improved extended micropump controller is available. It supports a flexible selection of the frequency, waveform and amplitude of the control voltage and offers due to this a maximum of pump control.

*Visit us at domotechnica + components, **Hall 11.2 – Booth A 028.***