

Press release

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Syringe pump systems for the highest requirements

cetoni GmbH, a medium-sized company that focuses on laboratory automation, has developed a modular precision syringe pump system especially for use in microfluidic applications called **neMESYS**. This system enables users to dose media without pulsations, very precisely and with very good reproduction features down to the nanolitre range. cetoni GmbH has resolved a key microfluidic problem with this innovative syringe pump system.

Traditional pump systems create pulsations in the fluid flow. These are variations from the average flow that can cause such problems as pressure variations in the microfluidic systems. Pulsations in the fluid flows have proven to be a serious problem when working with microfluids. In some systems even small pressure variations can produce very substantial errors. Examples of this include lab-on-a-chip applications, experiments using suspended particles and injecting fluids to generate gas vapour mixtures.

The modular neMESYS precision syringe pump system from cetoni GmbH is ideally suited to microfluidic applications, screening applications, lab-on-a-chip applications and miniaturised syntheses as a result of its highly precise and virtually pulsation-free dosing down to the nanolitre range. As a result of its modular structure and expansion options, the system can be quickly and easily modified to the requirements of the most varied microfluidic applications.

When implementing control solutions, device interfaces and application software, cetoni GmbH consistently focuses on open and standardised communication protocols and device profiles using CANopen. This is the reason why cetoni GmbH is an active member of the CAN-in-Automation (CiA) Special Interest Group (SIG) "Laboratory Automation" and is working there on the standardisation of CANopen device profiles for laboratory automation.

cetoni GmbH's range of products also includes stirring systems for suspensions, highly precise positioning systems, high pressure pumps and UV-LED arrays.

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