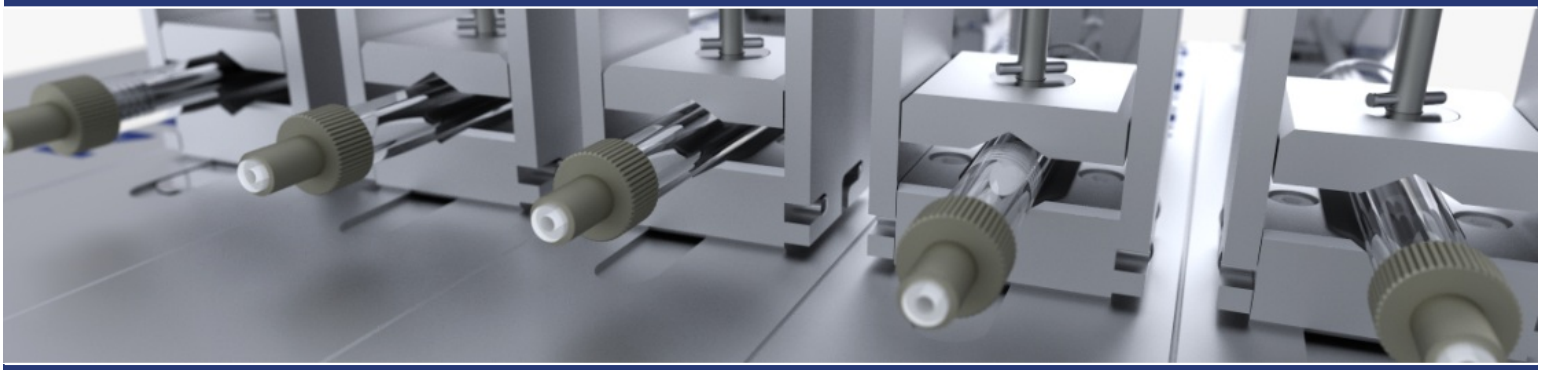
neMESYS

High Precision Syringe Pump



Pulsation free dosing system for generation of fluid streams down to nanolitres

Your benefits at a glance

- pulsation free and high-precise dosage of fluid streams in the range of nanolitres per second
- continuous flow possible
- very good reproducibility of test results
- universal syringe holder - syringes of different type and size can be used (outer diameter 6 to 30 mm)
- quick release syringe holder for fast and easy syringe exchange
- 3/2-way valve for automatically generated refill
- withdrawal and infuse mode
- modular extensible system
- configurable devices according to required precision
- simple plugging of syringe pump units
- comprehensive software package

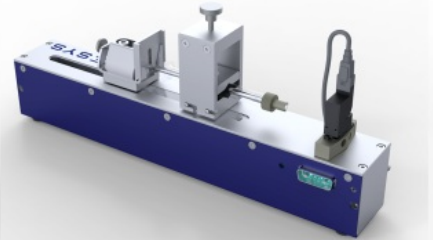
Fields of application

- Microfluidics and Lab-on-a-Chip applications
- Delivery for analytical methods (column filling, mass spectrometry and may more)
- Cell cultures applications (feeding cells and higly precise dosage of active agents)
- Pipetting and dispensing applications
- Microreaction technology
- Continuous flow

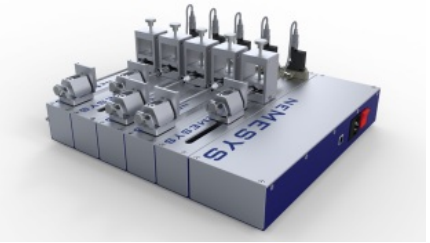
Modular and extensible

By simple assembling of single neMESYS syringe pumps (click system) or by linking them via bus cable you can build up a powerful multi-channel dosing system. By this you can generate a variety of fluid streams - synchronously and precise to nanolitres.

neMESYS Base-Module



neMESYS Single-Module



neMESYS System (1 x Base + 5 x Single)

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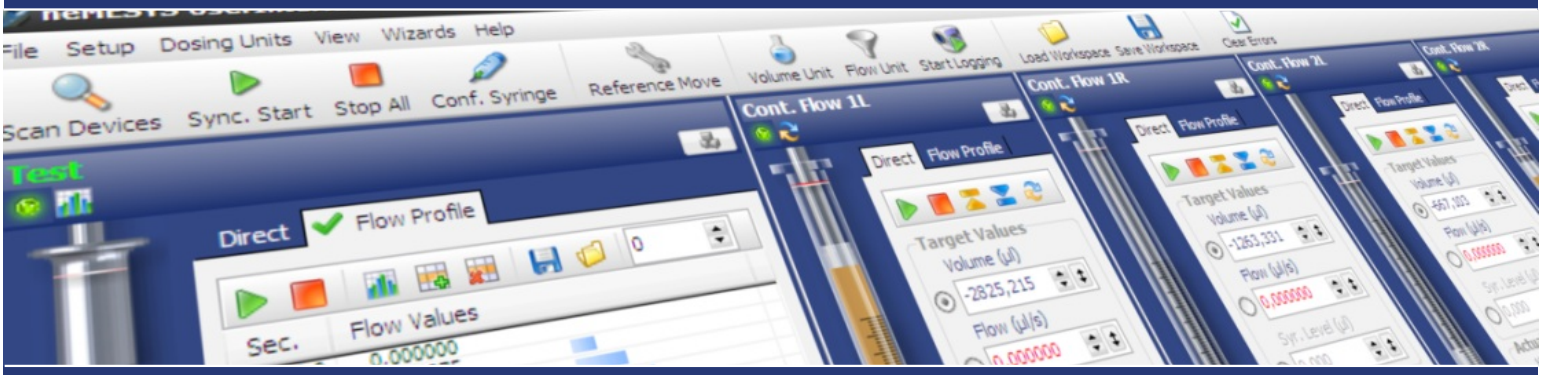
neMESYS

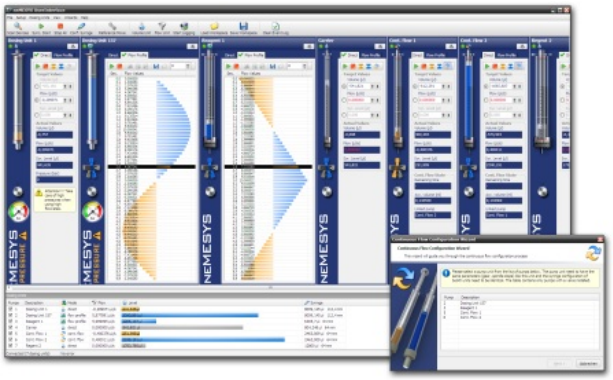
Precision on a mouseclick



Comprehensive software support and easy to integrate into customized applications

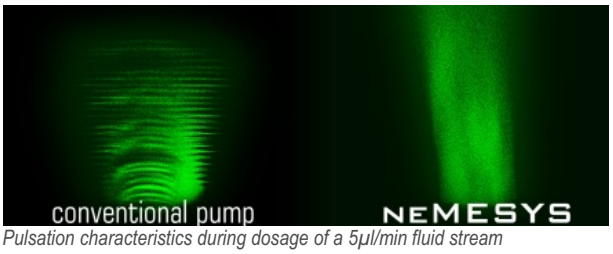
Windows Software neMESYS UserInterface

The neMESYS UserInterface software already covers many requirements from different fields of application. No matter if you only would like to dose highly precise volumes or if you need more advanced functionality like manual, interactive flow control, creation and execution of complex flow profiles based on value tables or generation of continuous flows over a virtually unlimited period of time - the software already offers a solution for all of these requirements and many many more.



Technology

The PID controlled servo drive unit of these syringe pumps ensures an extremely smooth movement of the syringe piston and prevents stick-slip-effects of the piston inside of the syringe tube. This guarantees a very high precision and the absence of pulsation in the generated fluid streams.



Pulsation characteristics during dosage of a 5µl/min fluid stream

Highlights

- automatic detection of connected dosing units
- supports Windows XP, 2000 and Windows Vista
- generation and editing of complex flow profiles
- import of flow profile from Excel- or simple text files
- configurable SI units for volumes and flow rates
- generation of continuous flows over a virtually unlimited period of time
- synchronous control of all dosing units
- interactive control via mouse wheel
- comprehensive programming libraries (LabVIEW, Windows DLL, RS232 Library)
- variety of interfaces (USB, CAN / CANopen, RS232)

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