

NEMESYS OEM

Modular OEM syringe pump



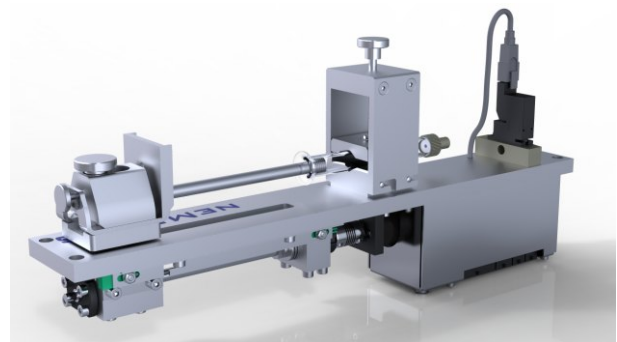
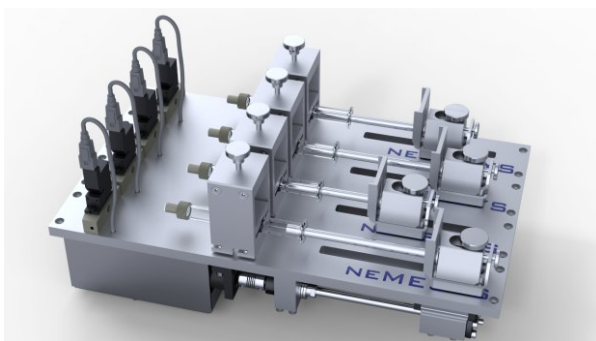
High precise pulsation-free multi-channel OEM syringe pump solution for your application

Easy to integrate

The OEM version of the neMESYS Single-Module makes it easy to integrate highly precise pulsation free dosage into your applications and devices. The available mechanical and electrical interfaces make the integration process easy and cost saving. Each pump offers a CAN interface. By that it is always possible to chain a number of neMESYS OEM-pumps together and to control them synchronously. It also makes the system ready for future extension.

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.



Your benefits at a glance

- OEM adaptability, easy integration
- comprehensive software package
- can be combined with neMESYS OEM tube pumps
- up to 127 pump modules can be chained via CAN bus
- RS232 interface
- pulsation-free and high-precise dosage of fluid streams in the range of nanolitres per second
- universal syringe holder - syringes of different type and size can be used (outer diameter 6 to 30 mm)
- 3/2-way-valve for automatically generated refill
- configurable devices according to required precision

Multi-channel fluid system built from four neMESYS OEM syringe pumps

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Comprehensive software support and easy to integrate into customized applications

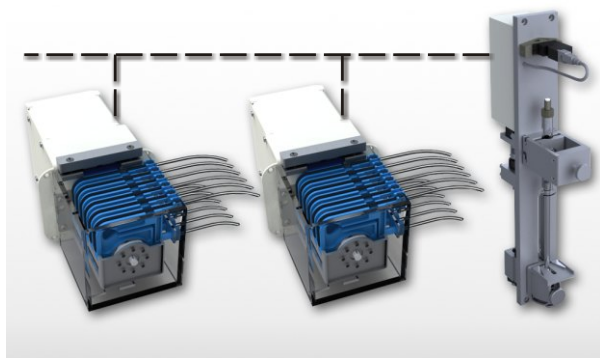
Wide variety of possibilities

The neMESYS OEM syringe pumps offer unprecedented possibilities for integration into your applications. Whether you develop standard Windows applications or you want to program in LabVIEW - we deliver the suitable libraries for those purposes.

The integrated CAN and RS232 interfaces allow control by SPS control units or customized microcontroller applications.

Interfaces

- CAN up to 1 Mbit/s (Standard 500 Kbit/s)
- RS232 up to 115200 bit/s
- USB 2.0 / 1.1 via optional USB-to-CAN interface



neMESYS OEM tubing pumps and neMESYS OEM syringe pump connected to the same bus in one application

Windows 32-Bit DLL

All functions like dosing volumes or generating constant flows are made available by a Windows 32-Bit DLL. This makes the integration into a wide range of development environments easy and cost-saving:

- Codegear RAD Studio & Borland Delphi / C++ Builder
- Microsoft Visual C and Microsoft Visual Studio .NET
- Microsoft Visual Basic
- Mathlab
- Agilent VEE



LabVIEW Integration

The comprehensive library of VIs makes embedding of the neMESYS OEM syringe pumps into your LabVIEW environment easy as a child's play. There are ready-to-use VIs for all functions.



CANopen (DS402)

The pump implements the CANopen device profile DS402 "Drives and Motion Control". By that each single pump drive can be accessed by CANopen applications in a standardized way via the integrated CAN interface.

