

PURCHASE CONTRACT no. 5221/0003/14

(hereinafter referred to as "the Contract")

Entered into pursuant to the Commercial Code, Act no. 513/1991, Coll., section 409 et sequentes, as amended

I.

Contractual Parties

1.1. The Purchaser: University of West Bohemia in Pilsen

Address: Univerzitní 8, 306 14 Plzeň, Czech Republic
Represented by: Doc. Ing. František Vávra, CSc.
dean of the Faculty of Applied Sciences, on behalf of the Authority
Bank account: Komerční banka a.s., Plzeň-město
Account number: 4811530257/0100
Identification no.: 49777513
Tax identification no.: CZ49777513
(hereinafter referred to as "the Purchaser") as one Contractual Party

and

1.2. The Seller: cetoni GmbH

Address: Wiesenring 6, 07554 Korbussen, Germany
Acting through/ represented by: Tilo Kunze
Bank account: Deutsche Bank
Account number: IBAN: DE79 8207 0000 0316 1999 00
SWIFT: DEUTDE8E
Identification no.: HRB 202566
Tax identification no.: DE 1505 26212
Registered in the Commercial Register of District Court Jena section HRB, insert 202566
(hereinafter referred to as "the Seller") as the other Contractual Party

(together also referred to as "the Contractual Parties")

Enter into the following Contract based on the result of the Tender for the Small-scale Contract entitled "MICROFLUIDIC CONTROL SYSTEM FOR THE PROJECT NTIS" as follows:

II.

Subject of the Contract

- 2.1. The Seller undertakes to supply four (4) new, fully functional and complete syringe pumps, including control, refilling modules and full-fledged software with one (1) license for one (1) work station (hereinafter referred to as "the Goods") and related services to the Purchaser in the range and pursuant to the terms and conditions of the herein Contract, and to transfer the ownership rights to the Goods on the Purchaser. The Goods is specified in detail in Annex no. 1 to this Contract and forms its integral part.
- 2.2. The Seller's commitment also includes transportation of the Goods, including possible transport insurance, to the place of delivery pursuant to Article III herein. Furthermore, the Seller undertakes to supply to the Purchaser a license for the use of software for at least 1 work station (PC) enabling proper and fully-functional use of the Goods from the date of receipt of the Goods. The license for the use of software – license is provided as licence unlimited in time and territory, and its price is included in the purchase price of the Goods, the Goods will be transferable including the right of sub-licensing and may be transferred without the Seller's consent. The Purchaser is not obliged to use the license.
- 2.3. The Seller declares that he is authorized to provide this license without any limitations relating to third parties, natural and legal, and that the said software is not encumbered by any third party rights in accordance with the Act no. 121/2000, Coll., Copyright and Rights Related to Copyright and on Amendment to Certain Acts, as amended, nor pursuant to any other law. The Seller acknowledges and agrees that should the rights of the Purchaser be constrained by any person, or should any person prevent the Purchaser from proper exercise of such rights, the Seller shall be obliged to prevent such activity and compensate the Purchaser for the loss incurred.
- 2.4. In case the representation provided by the Seller in clause 2.3 herein proves false, or the license is contrary the Seller's representation above invalid or the scope of the license provided is insufficient, the Purchaser will be obliged to claim a contractual penalty of CZK 50,000 from the Seller without prejudice to the Purchaser's right to claim damages. In such a case, the Purchaser will also be entitled to request the Seller to provide sufficient license in the scope required, if the Seller fails to accommodate this request within 30 days of the delivery of the Purchaser's note at the latest, the Purchaser will be entitled to terminate this Contract.

- 2.5.** The Purchaser undertakes to accept the Goods supplied by the Seller, and to pay the stipulated purchase price for the Goods using the payment method, and by the due date, stipulated herein.

III.

Time and Place of Delivery

- 3.1.** The Seller undertakes to supply the subject matter of the Contract to the Purchaser within 2 (two) months after the Contract comes into effect, which is the day the Contract is signed by both Contractual Parties at the latest. Should the Seller be in delay with the delivery pursuant to this article, the Seller undertakes to pay a contractual penalty of 0.5% of the total purchase price excluding VAT for every, even started, day of the delay. The contractual penalty will not prejudice the right to claim damages.
- 3.2.** A document certifying the delivery of the Goods by the Seller and its receipt by the Purchaser will be made out and signed by both Contractual Parties
- 3.3.** The place of delivery is University of West Bohemia in Pilsen (NTIS), Univerzitní 22, 306 14 Plzeň, Czech Republic.
- 3.4.** If the Seller is a foreigner Seller, the delivery of goods will follow INCOTERMS 2010 DAP (delivery at place), unless stipulated otherwise herein.

IV.

Price and Payment Terms

- 4.1.** Purchase price for the Goods and volume stipulated herein under the terms and conditions of the Contract was stipulated based on an agreement of the Contractual Parties and results from the price bid submitted by the Seller calculated for the purposes of the Tender concerning the delivery of the subject-matter of this contract

The Purchaser undertakes to pay the Seller for the duly and timely delivered supply of the Goods the stipulated **purchase price of CZK 480.000.-- excluding VAT (in words: four hundred eighty thousand Czech crowns)**.

VAT in the legal amount, based on self-assessment, will be paid by the Purchaser.

- 4.2.** The purchase price is stipulated as the highest possible price including all fees and any other costs associated with the delivery of the subject matter of the Contract. The price includes transportation as well as relevant transport insurance, handling as well as any administrative charges, approval procedure costs, required testing, compliance statement, certificates and attests, transfer of rights, insurance, transportation charges etc.
- 4.3.** The Purchaser will settle the purchase price in the Czech currency against a tax document – invoice. The purchase price for the Goods supplied pursuant to this Contract will be invoiced by the Seller within 20 days of the Goods delivery to the Purchaser, i.e. of the day when the document certifying the delivery and receipt of the Goods is signed by both Contractual Parties.
- 4.4.** The tax document (the invoice) must contain all elements of a proper accounting and tax document pursuant to the relevant legislation, namely the Value Added Tax Act no. 235/2004, Coll., as amended. The Purchaser will be entitled to return an invoice missing the relevant elements to the Seller to be amended before its due date, and the Purchaser will not be in delay with the payment in such a case. The payment period will start to run again after the duly amended or corrected invoice is received by the Purchaser.
- 4.5.** The invoice will be due 30 days after it is demonstrably received by the Purchaser.
- 4.6.** The Purchaser will not provide any advance payments.
- 4.7.** Should the Purchaser be in default with payment of the invoice, the Seller will be entitled to request an interest on late payment of 0.05% of the amount due for every, even started, day of the delay from the Purchaser. The interest on late payment will not be charged, if the payment is postponed due to late allocation of funding from the Operational Programme RDI.
- 4.8.** The Purchaser will be entitled to unilaterally – without the Seller's content – off-set any contractual penalties that the Seller is obliged to pay, against the invoiced amount

V.

Rights and Obligations of the Contractual Parties

- 5.1.** The Seller will be obliged to deliver the Goods in the agreed volume, quality and design. All the Goods supplied to the Purchaser according to this Contract must meet the quality requirements stipulated herein.
- 5.2.** The Seller will be obliged to supply the Goods to the Purchaser free of any defects and according to the terms and conditions stipulated herein, the Goods will be considered duly delivered when accepted by the Purchaser as evidenced by the document certifying the delivery and receipt of the Goods. This document certifying the handover of Goods may not be signed before a complete delivery of Goods is supplied to the Purchaser.
- 5.3.** The Seller will be obliged to supply exhaustive technical and other documents necessary for the use of the Goods to the Purchaser together with the Goods including instructions for use in the English and/or Czech language.
- 5.4.** The Purchaser assumes the ownership right to the Goods on the day the Goods is properly delivered and accepted by the Purchaser on grounds of a written document confirming the receipt of Goods. Risk of damage to things is assumed by the Purchaser on the same day.
- 5.5.** The Seller is obliged to immediately inform the Purchaser about possible risk that the deadline will not be met, and about any circumstances that might prevent delivery of the subject matter of the Contract.
- 5.6.** The Seller is obliged to maintain appropriate qualifications demonstrated in the course of the Tender preceding this Contract throughout the entire duration of the Contract. If this provision is breached, the Purchaser will be entitled to terminate this Contract for gross violation of the Contract.
- 5.7.** The Seller is not entitled to assign any rights or obligations arising from this Contract to a third party without obtaining a previous written consent of the Purchaser.
- 5.8.** The Seller agrees that any receivables that may be claimed from the Purchaser and that come to existence based on this Contract may not be assigned or set off by a unilateral legal act.

- 5.9.** The Seller will be liable to the Purchaser for any damage caused by violation of duties stipulated in this Contract or obligations stipulated by applicable law.
- 5.10.** The Contractual Parties agreed, and the Seller determined, that the person authorized to act on behalf of the Seller in the matters relating to the herein Contract and its execution is/are:
- Name: Ines Pietrek / Franz M Schaper
- E-mail: ines.pietrek@cetoni.de / franz.schaper@cetoni.de
- Phone: +49 36602 338-12 / -23
- 5.11.** The parties agreed and the Purchaser determined, that the person authorized to act on behalf of the Purchaser in the matters relating to the herein Contract and its execution is:
- Name: MSc Daniel Georgiev, Ph.D.
- E-mail: georgiev@kky.zcu.cz
- Phone: +420 721 275 943
- 5.12.** All and any correspondence, instructions, notices, requests, notes and other documents made out by the Contractual Parties based on this Contract or in relation to it will be made out in writing in Czech or English, and will be delivered either in person or by registered mail, fax or e-mail to the mailing addresses of the personnel authorized pursuant to this Contract and to their attention. In case of collision of the two language versions, the relevant version of the document in the Czech language will take precedence.
- 5.13.** The Seller acknowledges that pursuant to the Financial Control in Public Administration Act no. 320/2001, Coll., section 2 (e), as amended, the Seller is a person obliged to cooperate in exercising financial control. A controlling body of the Operational Programme RDI will be authorized to perform an audit and access those parts of the Proposal, Contracts and relating documents that are subject to separate legal regulations (such as trade secret, proprietary information) for a period of three years after the operational programme is closed, provided that the requirements defined by the law (for example the State Control Act no. 552/1991, Coll., section 11 (c) and (d) and section 12, subsection 2 (f)), as amended, are met. The controlling body of the Operational Programme RDI is similarly authorized to perform audit at the Seller's subcontractors (see Annex no. 2 to the Guidelines for OP RDI Applicants and Beneficiaries – Contractor Selection Guidelines <http://www.msmt.cz/file/14585>).

- 5.14.** The Seller will be obliged to provide the Purchaser with free of charge telephone and e-mail consulting concerning the operation and use of the goods for the entire period of the use of the Goods.
- 5.15.** The Seller will be obliged to properly maintain all documents relating to the execution of the subject-matter of the Contract, including accounting books, for at least three years after the OP RDI project is closed, i.e. at least until 2021. During the same time period, the Seller will be obliged to provide requested information and documents to the employees or agents of bodies authorized to audit projects performed under OP RDI and will be obliged to create conditions for these personnel to be able to carry out the audit of the project implementation and cooperate in the audit.
- 5.16.** If any part of the supply of the Goods pursuant to this Contract is to be subcontracted, the Seller must provide identification data of a relevant subcontractor:
[none].
Any changes of the subcontractor pursuant to this Contract are subject to a previous written consent of the Purchaser.
- 5.17.** The Seller undertakes to observe all and any obligations set out in the Seller's Proposal submitted to the Public Tender specified in Article II herein.

VI. Guarantee on the Goods

- 6.1** The Seller assumes guarantee on the Goods for the period of 12 months. The guarantee period starts on the day the Goods is delivered to the Purchaser, i.e. on the day the document confirming delivery and receipt of the Goods is signed by both parties involved.
- 6.2** The Purchaser is obliged to inform the Seller about any defects covered by the guarantee as soon as they are identified. Any repairs covered by the guarantee will be carried out by the Seller free of charge and without undue delay taking into consideration the nature of defect.
- 6.3** In the course of the guarantee period, the Seller will be obliged to remedy the claimed defects, or as the case may be, satisfy other claims of the Purchaser arising from unsatisfactory performance within at most 1 month of the claim being reported by the Pur-

chaser by phone or e-mail, unless the Contractual Parties stipulate otherwise. In case a defect is being repaired in the course of the guarantee period, the guarantee period will be extended by the time elapsed between the moment when the Purchaser reports the defect and its removal by the Seller.

- 6.4** If the removal of the defects reported by the Purchaser in accordance with article 6.3 herein is delayed by the Seller, the Seller undertakes to pay a contractual penalty of CZK 500 for every, even started, day of the delay to the Purchaser. Enforcement of contractual penalty has no effect on the claimed damages.
- 6.5** Any claims may be raised by the last day of the guarantee period at the latest; claims mailed on the last day of the guarantee period will be considered duly raised claims.
- 6.6** The guarantee does not cover defects caused by unprofessional manipulation or mechanical damage of the instrument by the Purchaser.

VII.

Validity and Effect of the Contract

- 7.1** The Contract becomes valid and effective on the day it is signed by authorized representatives of the two Contractual Parties.
- 7.2** The Contract can only be terminated for reasons stipulated in the Contract or specified by law.
- 7.3** A contractual party affected by the other party's failure to meet its obligation may unilaterally terminate this Contract for a gross violation of the Contract; in particular, the following will be considered gross violation of this Contract:
- a) Purchaser's failure to pay the purchase price in accordance with this Contract within 30 days after the due date of a relevant invoice – this violation will not occur, even if transaction of financial sources from the operational program VaVpI is delayed,
 - b) Seller's failure to duly deliver the Goods, or even part of the Goods, on the agreed dates,
 - c) Seller's failure to supply Goods possessing the characteristics declared by the Seller in this Contract,
 - d) Seller's failure to remove any defects on time pursuant to article 6.3 herein.

- 7.4** Once the Contract becomes ineffective, all and any obligations of the Contractual Parties arising from this Contract will cease to exist. The ineffectiveness or termination of the Contract will not affect the existence of the right to claim damages and contractual penalties in case of violation of the contractual obligations existing before the Contract becomes ineffective, and obligations of the Contractual Parties that are to survive this Contract pursuant to the Contract or by their nature or by law.

VIII. Closing Provisions

- 8.1** The relationship between the parties will be governed by the Czech law. Unless expressly stipulated otherwise in the Contract, the relationships that come to existence based on this Contract and arising from this Contract are governed by the relevant provisions of the Commercial Code, Act no. 513/1991, Coll., as amended, and other applicable laws.
- 8.2** All and any changes and amendments to the Contract may only be made by a written agreement of the Contractual Parties. Such agreements must be in the form of dated and sequentially numbered amendments to the Contract signed by both Contractual Parties.
- 8.3** If any of the parties is unable to duly perform this Contract due to circumstances preventing it to do so, the party will be obliged to inform the other party about the fact without undue delay and initiate a meeting of the Purchaser's and Seller's representatives.
- 8.4** If a reason causing one provision to be invalid only affects a certain provision of the Contract, only this particular provision will be invalid, unless its nature or circumstances under which it was stipulated, indicate that it is not severable from the rest of the Contract.
- 8.5** The Contractual Parties will always strive to reach amicable settlement of possible disputes arising out of the Contract. If an amicable settlement is impossible to reach within 30 business days of the first notification of the other party, any of the Contractual Parties will be entitled to file its claim at competent court. Arbitration procedure is excluded.
- 8.6** The Contract is made out in 4 (four) identical copies, each of which is valid as original. Each of the Contractual Parties will receive 2 (two) identical copies.

8.7 The Contractual Parties declare that they have read the Contract before signing, and have no reservations to its content whatsoever. The Contract expresses their sincere, real, free and serious will. To demonstrate that these statements are authentic and true the authorized representatives of the Contractual Parties attach signatures in their own hand.

Annexes:

Annex no. 1 - Detailed Technical Specification of the Goods

Annex no. 2 - Authorization of the Dean of the Faculty of Applied Sciences of University of West Bohemia in Pilsen to Act on Behalf of the Public University

27 -02- 2014
In Pilsen, date

In Korbussen, date *26.03.14*

On behalf of the Purchaser:

University of West Bohemia in Pilsen

.....
Doc. Ing. František Vávra, CSc.
dean of the Faculty of Applied Sciences,
on behalf of the Authority

On behalf of the Seller:

cetoni GmbH

.....
Tilo Kunze
Managing Director



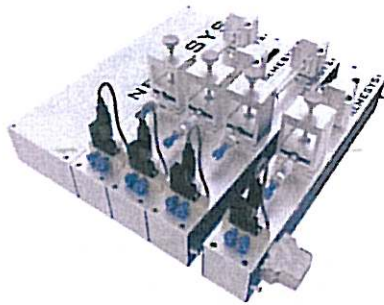
Annex no. 1 to the Contract – Detailed Technical Specification of the Goods

NEMESYS[®] LOW PRESSURE

High Precision Syringe Pump

Description

The NEMESYS Low Pressure syringe pump module is a pulsation-free dosing unit for high-precision dosing tasks of single or multiple fluid streams in the range of ml down to pl.



Depending on the base module's power rating, up to 8 pump modules may be operated using one BASE 120 module. By using the integrated 3/2-way solenoid valve, you are able to switch between 2 independent fluid streams automatically.

Mechanical Data

Weight..... 1.3 kg
Dimensions (L x W x H)..... 310 x 47 x 56 mm

Electrical Data

Peak Power Consumption..... 14.5 W
Power Supply Voltage (Input)..... 24 V DC

Environment

Operating Temperature..... 0 – 45°C
Storage Temperature..... -40 – 75°C
Operating Humidity..... 20 – 80%, Noncondensing
Storage Humidity..... 20 – 80%, Noncondensing

Interfaces

CAN..... max. 1 Mbit/s
RS232..... max. 115200 bit/s

Configuration

Gearing..... 14.1 (optional: 1 / 29.2)
Syringe Outer Diameter..... 6 – 30 mm
Syringe Stroke..... 60 mm

3/2-Way Valve*

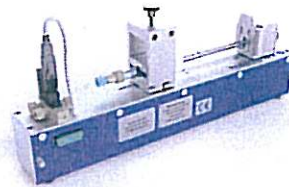
Material Body..... PEEK** / PCTFE
Material Sealing..... FFKM** / EPDM
Temperature Media..... 2 – 40°C
Viscosity..... max. 20 mm²/s
Internal Volume..... < 13 µl
Orifice..... DN 0.6 mm** / 1.35 mm
Port Connection..... 1/4"-28 UNF
Pressure Resistance..... 3 bar** / 1 bar

*... valve optional, pump maybe ordered without valve
**... default configuration

Dosing Performance (for selected syringe sizes)

Gear	14.1*	29.2
Pusher Velocity Min [mm/s]	27.26	13.15
Pusher Velocity Max [mm/s]	6.33	3.06
Pusher Force Max [N]	390	815
Syringe 0.5 µl / 60 mm Stroke		
Flow Rate Min [pl/min]	13.63	6.57
Flow Rate Max [µl/min]	3.16	1.53
Dosing Vol. Min [pl] = 1 Increment	0.29	0.14
Syringe 100 µl / 60 mm Stroke		
Flow Rate Min [nl/min]	2.73	1.32
Flow Rate Max [ml/min]	0.63	0.31
Dosing Vol. Min [pl] = 1 Increment	0.58	0.28
Syringe 2.5 ml / 60 mm Stroke		
Flow Rate Min [µl/min]	0.07	0.03
Flow Rate Max [ml/min]	15.82	7.63
Dosing Vol. Min [pl] = 1 Increment	14.47	6.98
Syringe 25 ml / 60 mm Stroke		
Flow Rate Min [µl/min]	0.68	0.33
Flow Rate Max [ml/min]	158.22	76.30
Dosing Vol. Min [pl] = 1 Increment	28.94	13.95

*... standard configuration



Accessories

Item	Description	Illustration
3/2-way solenoid valve	for automated fluid management	
50 ml-syringe holder	custom option for glass syringes with larger diameters (max. 40 mm)	
syringe counter holder	eliminates forward slipping of syringes during heavy use	
multi-syringe holder (2- and 4-syringe versions)	synchronized use of multiple syringes with one pump unit	

14/01/10

cetoni GmbH
Wiesening 6
07554 Korbussen
Germany

Phone: +49 36602 338 0
Fax: +49 36602 338 11
Email: info@cetoni.de
www.cetoni.de

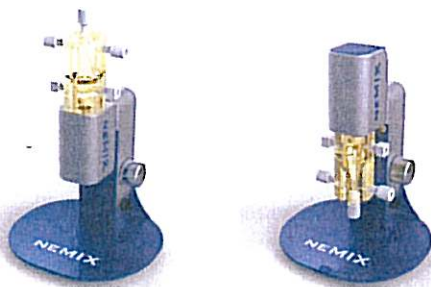


NEMIX BOTTLE

Stirring Solutions

Description

There are many applications where it is very important to stir small volumes particle or cell suspensions during dosing – and the NEMIX Bottle has been specifically designed for this. Tests have shown that this stirring method is nearly stress-free for living cells in suspension. An additional use scenario is the definition of the contact area between two immiscible fluids – a driving fluid and the suspension – during the dosing process.



Mechanical Data

Dimensions (L x W x H) 103 x 120 x 198 mm
 Weight 510 g
 Connections 1/4"-28 UNF

Electrical Data

Power Supply Voltage 24 V DC

Materials

Bottle Tecason® E / PTFE
 O-Ring Silicone

Environment / Handling

Operating Temperature -10 – 45°C
 Storage Temperature -40 – 80°C
 Operating Humidity 20 – 80%, Noncondensing
 Storage Humidity 20 – 80%, Noncondensing
 Autoclavable Limited
 Sterilisation (70% alc.) Yes
 Sterilisation (UV) Yes

Configuration

Volume 1.9 ml
 Dosable Volume 1.5 ml
 Min. Rotation Speed* 14 rpm
 Max. Rotation Speed* 426 rpm

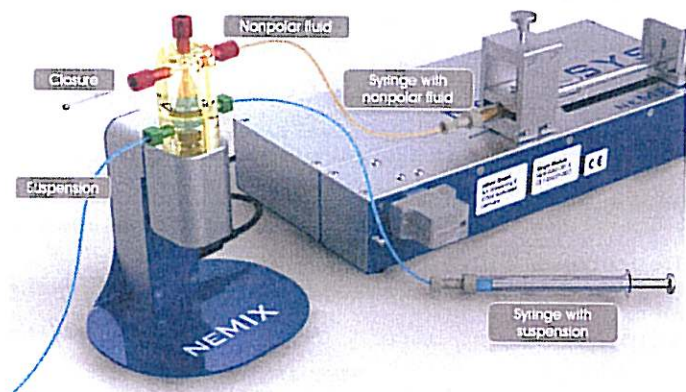
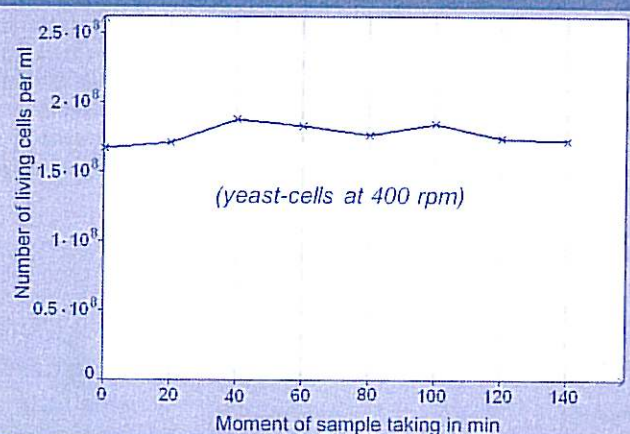
*Rotation speed depends on viscosity of media

Dosing Performance (in combination with NEMESYS pump modules)*

Gear	1.0	14.1	29.2
Syringe 100 µl			
Flow Rate Min [nl/min]	38.33	2.72	1.31
Flow Rate Max [ml/min]	8.90	0.63	0.30
Syringe 2.5 ml			
Flow Rate Min [µl/min]	0.95	0.06	0.03
Flow Rate Max [ml/min]	222.50	15.82	7.63
Syringe 25 ml			
Flow Rate Min [µl/min]	9.58	0.68	0.32
Flow Rate Max [ml/min]	2225.00	158.22	76.30

* dosing performance depends on syringe size and neMESYS configuration

Number of living cells during agitation



Notice

It is recommended to use the NEMIX Bottle in combination with NEMESYS syringe pumps to achieve the best dosing results.

14/01/10

cetoni GmbH Phone: +49 36602 338 0
 Wiesenring 6 Fax: +49 36602 338 11
 07554 Korbussen Email: info@cetoni.de
 Germany www.cetoni.de

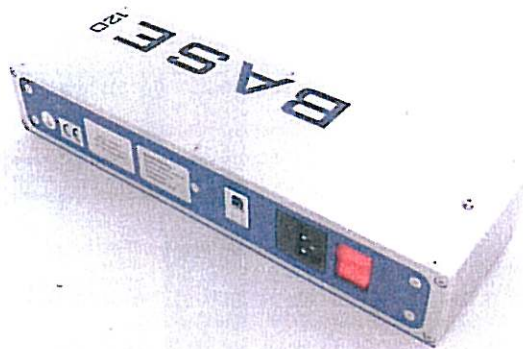


NEMESYS[®] / QMIX BASE

Equipment Controller

NEMESYS Base / BASE 120

The cetoni BASE modules provide the basic interfaces (PC connection & power supply) to your microfluidic setup. With its 120 W of power, the BASE 120 is primarily thought to be used with our syringe pumps units.



QMIX Base / BASE 600

For increased power demands, e.g. when a large number of syringe pumps or additional QMIX micro-reaction components are to be controlled, the BASE 600 unit provides the optimal performance.



BASE 120

Mechanical Data

Weight 1.8 kg
 Dimensions (L x W x H) 310 x 94 x 56 mm

Electrical Data

Power Output 120 W
 Power Supply Voltage 90 – 264 V AC
 Power Supply Frequency 47 – 63 Hz

Number of Supported Pump Modules (Examples):

NEMESYS Low Pressure 8
 NEMESYS Mid Pressure 5
 NEMESYS High Pressure 2

Environment

Operating Temperature 0 – 50°C
 Storage Temperature -20 – 75°C
 Operating Humidity 20 - 80%, Noncondensing
 Storage Humidity 20 - 80%, Noncondensing

Interfaces

USB 1.1 and 2.0
 CAN max. 1 Mbit/s

BASE 600

Mechanical Data

Weight 3.7 kg
 Dimensions (L x W x H) 310 x 200 x 56 mm

Electrical Data

Power Output 600 W
 Power Supply Voltage 90 – 264 V AC
 Power Supply Frequency 47 – 63 Hz

To Be Used With:

NEMESYS Low/Mid/High Pressure Modules
 QMIX all Modules
 NEMESYS UltraHigh Pressure, rotAXYS, etc. via Interconnect Cable

Environment

Operating Temperature 0 – 50°C
 Storage Temperature -20 – 75°C
 Operating Humidity 20 - 80 %, Noncondensing
 Storage Humidity 20 - 80 %, Noncondensing

Interfaces

USB 1.1 and 2.0
 CAN max. 1 Mbit/s

14/01/10

cetoni GmbH Phone: +49 36602 338 0
 Wiesening 6 Fax: +49 36602 338 11
 07554 Korbussen Email: info@cetoni.de
 Germany www.cetoni.de



NEMESYS[®] USERINTERFACE

pump control software

neMESYS UserInterface – your easy-to-use and versatile software tool for syringe pump configuration and control.

It is compatible with all cetoni syringe pump models, from low to ultra-high pressure.

Includes added process safety via temperature- or pressure sensors connected through the pumps' optional or built-in trigger interface.

The software may be used for the dosing of

- pre-defined volumes,
- continuous fluid streams,
- dynamic flow profiles

Of course, full manual control of dosing processes is possible as well

Control of up to 32 pump modules

- automatic detection of pre-configured and connected dosing units
- synchronous start of all dosing units
- supports PCs running Windows XP, 2000, Vista, 7, 8

Graphical display and configuration

- visualization of syringe sizes, syringe levels, and valve states
- configurable SI units for volumes and flow rates

Flow profiles

- generation and editing of complex flow profiles
- dynamic flow profiles based on mathematical functions

Continuous flow

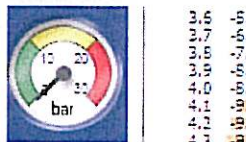
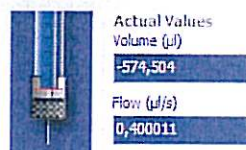
- unlimited dosing via two pumps operating in continuous flow mode
- Continuous Flow Wizard for easy configuration

Pressure sensor support

- measurement and display of pressure
- automatic stop on configurable over pressure

neMESYS UserInterface v2.60

- improved continuous flow mode with new features
- cross flow - enables smooth cross-fading of two fluid streams from two different pumps
- supports connected temperature and pressure sensors
- configurable SI units for pressure (MPa, psi, bar) and temperature (K, °C, °F)
- user-defined pump actions for sensor over- and underruns (temperature/pressure)
- dosing panel can be rotated by 180° to mimic vertical hardware setup
- improved usability and a various small and useful improvements





13.01.2014

DECLARATION

To whom it may concern,

We declare that the cetoni neMESYS syringe pump system is exclusively suited for a variety of fluidic applications. They have been tested and proven to work for uses ranging from flow-chemical research & development and automated pilot-run evaluation of reaction conditions to chemical synthetic production setups.

The unique characteristics of the cetoni syringe pump systems include the following features:

base module / neMESYS low-pressure syringe pumps (14.1/29.1):

- highest possible precision and reliability
- pulsation-free actuation
- utilization for a broad range of different pressures
- functional modularity and extendibility

high precision glass syringes (0.25 – 25ml):

- highest possible precision and reliability
- no "Stick-Slip" effects
- reusable

neMESYS-Qmix system

- easy and fast set up
- modular and freely to rearrange, e.g. via interconnect cable, to suite different application and positioning needs
- fully backward compatible, future proof, and open (higher flow rates, higher pressures, integrated temperature control, various actuation and detection modules)

software

- choice between simple pump software, script based QmixELEMENTS for full-system automation, or programming kit for integration into lab- or production environment by using SDKs, Windows DLLs or LabView libraries
- QmixELEMENTS with direct control mode, automated script mode, or custom UI mode

neMIX stirrer bottle

- manipulation and dosing of very small cell-suspension volumes, incl. diffusion studies and a variety of other uses

cetoni GmbH

POVĚŘENÍ

(v souladu se zák. č. 262/2006 Sb.; zákoník práce, ve znění pozdějších předpisů, zák. č. 111/1998 Sb., o vysokých školách, ve znění pozdějších předpisů; zák. č. 137/2006 Sb., o veřejných zakázkách, ve znění pozdějších předpisů)

Západočeská univerzita v Plzni, IČO: 49777513, se sídlem Plzeň, ul. Univerzitní 8/2732, PSČ: 306 14, jednající doc. PaedDr. Ilonou Mauritzovou, Ph.D., rektorkou, tímto

p o v ě ř u j e

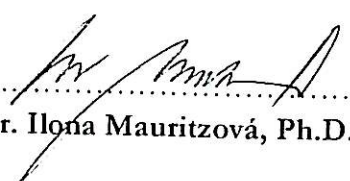
v souladu (i) s Rozhodnutím rektora č. 25R/2012 - Organizačním řádem Západočeské univerzity v Plzni ze dne 28.08.2012, ZCU 028615/2012, (ii) se zák. č. 111/1998 Sb., o vysokých školách; (iii) Statutem Západočeské univerzity v Plzni ze dne 20.12.2012 a (iv) zák. č. 111/1998 Sb., o vysokých školách, ve znění pozdějších předpisů,

ke dni 1. 8. 2013


jméno: FRANTIŠEK příjmení: VÁVRA narozen dne: 22. dubna 1949, bytem: Alej Svobody 52, 323 00 Plzeň, funkce: děkan Fakulty aplikovaných věd, zaměstnanec Západočeské univerzity v Plzni, zejména k:

- zajištění všech úkonů souvisejících s organizací, koordinací a výkonem činností při zadávání veřejných zakázek ve smyslu zák. č. 137/2006 Sb., o veřejných zakázkách, ve znění pozdějších předpisů, v rámci Operačního programu Výzkum a vývoj pro inovace, projekt NTIS, CTPVV;
- k podpisu všech právních úkonů souvisejících se zadáváním veřejných zakázek ve smyslu zák. č. 137/2006 Sb., o veřejných zakázkách, ve znění pozdějších předpisů, v rámci Operačního programu Výzkum a vývoj pro inovace, projekt NTIS, CTPVV.

V Plzni, dne 17. července 2013


.....
doc. PaedDr. Ilona Mauritzová, Ph.D., rektorka ZČU

Uvedené pověření přijímám:


.....
doc. Ing. František Vávra, CSc., děkan FAV