



No: IIITDMK/25-26/SP/PAC-Pulsation-Free Syringe Pump System

Dt. 07.05.2025

CALL FOR OBJECTION NOTICE

Subject: "Call for Objection" against Procurement under **Proprietary Article (PAC) Basis** in IIITDM Kancheepuram.

Item Name: Syringe Pump System

Attribute	Details
Syringe pump drive	2 numbers capable of generating force upto 400 N
pulsation-free actuation	down to 10 pl/min (min. pusher velocity 0.8 nm/s; min. pusher increment of 6 nm; linear resolution of atleast 1,75,000 increments/mm which is critical for applications requiring extreme stability, such as microfluidics, bioprinting, or nano dispensing.)
Base Unit	Power supply unit with PC interface, capable of connecting up to 12 Small (400 N)/ 5 Medium / 2 High Pressure units.
Syringe Pump	Pulsation-Free Drive with a force of 400N I/O Port for valve integration with an integrated pressure sensor Inlet Protection for safety and reliability Vertical Stand for easy positioning and use Precision Glass Syringes available in sizes ranging from 10µl to 50ml Syringe Holder with 1/4-28 UNF threading capable of handling syringe sizes from 10µl to 50ml.
Valves	3/4-Way Valve (combines two 2/2-way valves), with a maximum pressure of 5 bar Integrated Pressure Sensor for accurate monitoring Materials: FFKM, PEEK (Optional materials: FKM/EPDM, PPS with a 10 bar max pressure) Connections compatible with 1/4"-28UNF threads.
Precision Glass Syringes	Available in sizes 1.0ml, 5.0ml, and 25ml. Capable of withstanding up to 10 bar pressure. Made from PTFE (Polytetrafluoroethylene), PCTFE (Polychlorotrifluoroethylene), stainless steel, and borosilicate glass 60mm scale length, with 1/4-28 UNF male thread 60mm scale length for precise measurements along with the 1/4-28 UNF Male Thread for compatibility with syringe holders
Software	Control software for Windows OS (version 10 or later), Supporting control of syringe pumps and process automation. Features scripting and graphical data logging.
Sockets	Can out (Mixed DSub) and USB (type B)

Minimum Flow rate	1 nl/min (with 1ml syringe)
Maximum flow rate	150 ml/min (with 25ml syringe)
Input Power	90 – 254 V AC, Frequency 47 – 63 Hz
Weight	<10kg
Operating Temperature	-20 – 50 °C
Storage Temperature	-40 – 75 °C
Operating Humidity	10 – 90 % (non-condensing)
Storage Humidity	10 – 90 % (non-condensing)
Certification	Preparation of the Certification of Origin for the system.

It is intended to procure Instruments, Accessories & Consumables for **Syringe Pump System** on a proprietary article basis as per the provision of GFR, 2017 Rule 166 (i), directly from **M/s. CETONI GmbH** - Automation and Microsystems, Wiesenring 6, Korbussen, 07554, DE, Germany, against their proposal submitted, as the sole manufacturer/supplier of Instruments, Accessories & Consumables for **Syringe Pump System**, which satisfies all requirements of being a proprietary item

The notice is hereby issued for the general information of Aspirant Manufacturers / Authorized Distributors/Suppliers, to submit their objection, if any, on the proprietorship of the above item in terms of Rule 166 (i) of GFR, 2017 as amended from time to time.

Relevant documents are published on the institute website for inviting objections/claims/comments, if any, from eligible manufacturer /supplier, before accepting the claim of the earlier said manufacturer and accordingly making procurement under proprietary article.

The Objections/claims/comments along with the complete details of challenging the proprietorship of the above items, if any, should be sent to the office of The Registrar, IIITDM Kancheepuram, Melakottaiyur, Chennai - 600127 in a sealed envelope with above mentioned subject & reference number, or by e-mail at registrar@iiitdm.ac.in on or before **23.05.2025 up to 05.00 PM**, failing which, it will be presumed that the above item are the proprietary item of the concerned firm as claimed by them in the Proprietary Article Certificate (PAC). Accordingly, the institute will initiate the process of procurement of the above item under Rule 166 (i) of GFR, 2017 as amended from time.

After the due date, it will be assumed that no manufacturer/supplier has any objection/claim against above mentioned equipment article & same will be considered as the proprietary article.

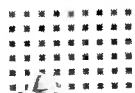


Registrar
कुलसचिव / Registrar

Enclosure: -

- Sole Manufacturing certificate by **M/s. CETONI GmbH, Germany**

भारतीय सूचना प्रौद्योगिकी अभिकल्पना एवं विनिर्माण संस्थान, कांचीपुरम्
Indian Institute of Information Technology Design and Manufacturing, Kancheepuram
भा.सु.प्रौ.सं.अ.एवं.वि.सं.-कांचीपुरम् / IIITDM-Kancheepuram
मेलक्कोट्टैयूर, चेन्नई / Melakottaiyur, Chennai-600 127.



STATEMENT OF EXCLUSIVITY & SOURCE


We declare that the CETONI GmbH (Korbussen, Germany) is the sole manufacturer and single source of CETONI Nemesis syringe pump modules which are exclusively suited for a variety of fluidic applications. They have been tested and proven to work for uses ranging from environmental engineering, biological research, flow-chemical research & development to production setups.

The unique characteristics of the CETONI Nemesis S that are of importance to micro-scale fluidic application include the following:

- highest possible precision and reliability due to the robust body and the high-quality components
- pulsation-free actuation down to 8,5 pl/min (min. pusher velocity 0,76 nm/s; min. pusher increment of 5,6 nm; linear resolution of 178.000 increments/mm)
- utilization for a broad range of different flow rates up to 300 ml/min
- Integrated force monitoring to protect the application
- Integrated stand for safe upright operation
- functional modularity and extendibility
- included valve
- continuous flow option
- use of external accessories and hardware within the system
- exclusive control software for fast intuitive programming (customized flow-profiles and continuous control modes)
- universal hard and software interfaces (USB, CAN, RS232)

CETONI GmbH

9/12/2024


Christian Kirscht
(Head of Operations)

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