

PN1610 Syringe Pump



**Precision
2-piston
syringe pump**

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Specifications:

Dosage system:

2 interchangeable dosage syringes, automatically powered by step-by-step motors; integrated change-over valve

Injection volume:

0,1 mL; 0,25 mL; 0,5 mL;
1mL; 2,5 mL; 5 mL

Materials of flow paths:

Glass, PTFE; PEEK

Flow rates (full scale):

0,8 mL/min; 2 mL/min; 4 mL/min;
8 mL/min; 20 mL/min; 40 mL/min

Volume choice:

internal control:
0 to 255/1000 full scale in 1/1000 increments;
256 to 1000/1000 full scale in 4/1000 increments
external control:
in 4/1000 increments

Working types:

internal, external

Display:

4 digits, 7 segment display

Security equipment:

Error message and switching off at undefined piston and valve position

Working voltage:

220 V/0,5 A (110 V/1 A)

Dimensions:

380 x 220 x 160 mm (T x B x H)

Weight:

ca. 8 kg

Max. pressure:

20 bar with 0,1 ml Syringe



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Syringe Pump PN1610

The Postnova syringe pump PN1610 has been developed especially for the analytical applications, in which the main function is the exact dosage of liquids and liquid delivery nearly pulse free. The pump can work flexibly at different tasks and can be integrated in different systems. Some of the special features of the PN1610 syringe pump are the following ones:

- two mutually driven syringe pistons powered by linear motors with spindles for highest precision,
- highly precise flow rates over a range of 10 μ L/min to 40 mL/min with different interchangeable syringes,
- chemical complete inert system for the delivery of sensitive biological or aggressive solutions,
- minimization of pressure variation by the switching of the change-over valve with asymmetrically directed piston moving in opposite direction before and during the valve switching,
- with the interfaces at the back of the instrument it is easy to control the instrument both manually and externally.

As well as the different injection sizes and delivery volumes there are two further instrument variants at disposal:

PN1610D: Dosage pump

PN1610D is used for the precise dosage of liquids into analytic systems.

PN1610S: Withdrawal pump

PN1610S is used for the precise withdrawal of liquids out of analytic systems.



Fig 1: Insight view of the PN1610

Applications:

- Precise fluid delivery, pulseless for Microreaction Technology
- Dosage of aggressive media under complete inert conditions
- Post-column derivatisation in LC chromatography