

# PN1610

## FFF Outlet Splitting Pump



# PN1610 Syringe Pump

## 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;  
1 mL; 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 (T x B x H):  
380 x 220 x 160 mm
- Weight:  
ca. 8 kg
- Maximum pressure:  
20 bar with 0.1 mL Syringe



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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  $\mu$ 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

There are different syringe sizes and delivery volumes possible. Model PN1610 is also available in 2 different versions:

PN1610D: Dosage pump is used for the precise dosing of liquids into analytical systems.

PN1610S: Withdrawal pump is used for the precise withdrawal of liquids out of analytical systems.



## Applications:

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