

OPERATIONAL INSTRUCTIONS *

Millifluidic Chip

Manifold

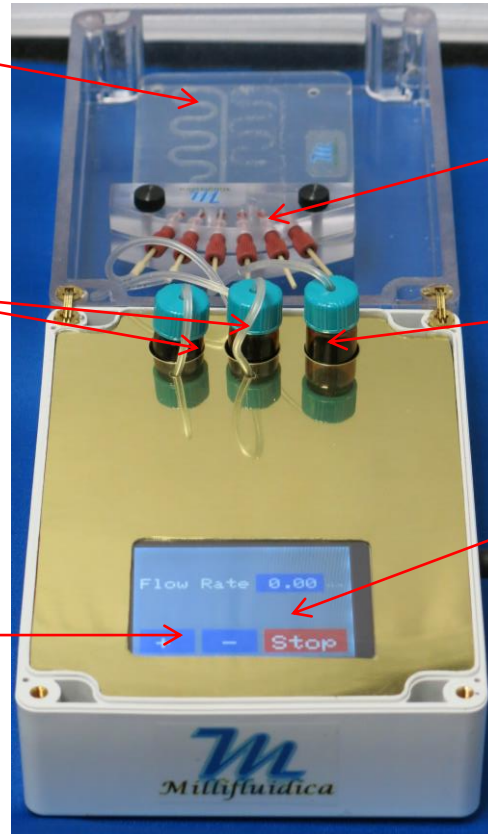
Inlet containers

Output collector

Touch screen operation
and flow rate (ml/min) display

Power connection
for 12 V DC adapter

Flow controller
Soft touch for slow steps
Hard touch for higher steps



- Step-1 : Open the cover by lifting it from front to back
- Step-2 : Unscrew the two black screws from the manifold
- Step-3 : Insert millifluidic chip of your choice between the two blocks of the manifold
- Step-4 : Ensure that the ports of the manifold are aligned with the holes of the chip
- Step-5 : Tightly close the manifold
- Step-6 : Ensure that the inlets and outlet tubing connections are appropriate.
- Step-7 : Connect the power supply.
- Step-8 : Clean the reactor channels with isopropyl alcohol and allow to dry prior to each experiment
- Step-9 : Calibrate the flow rates required using solution of your interest and flow controller buttons to set the flow rate of both the inlets together.
- Step-10 : Add the reagents into inlet bottles to start a reaction or study flow patterns using dye solutions. Collect the product into the output collector.

Notes: 1) The design of chips and manifolds may vary from those shown in the picture; 2) The flow rates of the two inlets cannot be varied independently unless specified; 3) Each chip has two independent channels that can be used separately by making appropriate connections with tubes

- The operator of the device is responsible for all actions and outcomes when using the device and agree to operate the device at his/her own risk. The manufacturer is not liable for any damages due to unanticipated accidents or misuse of the device or its components