

LINEUP™ P-SWITCH

8 PORTS / 2 POSITION VALVE MODULE

P/N : ELUPSW2000

The **LineUp™ P-SWITCH** is a pneumatic valve controller. By providing two pressure sources (any vacuum or pressure **from -800 to +2000 mbar**), each module is able to deliver one of the two provided pressures through **eight independent outlets**. The module is compatible with other LineUp™ modules and allows for automation of any **pneumatic or quake valve actuation**.



ADVANTAGES & BENEFITS



Compact



Use with and
without a PC



Modular &
Expandable



Pressure &
Vacuum in
one unit



Ease of use

- Quick liquid switching
- Reduced dead/internal volumes (compared to fluidic valves)
- No liquid contact with the instrument
- Prevent cross-contamination (compared to fluidic valves)
- Ability to inject one or several solutions at the same time
- Expandable for multiple pneumatic controls

SPECIFICATIONS

| Product information | |
|----------------------------|---|
| Part Number | ELUPSW2000 |
| Maximum Pressure | 2000 mbar (29,0 psi) |
| Minimum Vacuum | -800 mbar (-11,6 psi) |
| Pressure input requirement | 2100 mbar (30,5 psi) |
| Vacuum input requirement | -900 mbar (-13,1 psi) |
| Performance | |
| Valve actuation time | 10 ms |
| Response time* | 30 ms |
| Electrical specifications | |
| Power consumption | 6W |
| Hardware specifications | |
| Dimensions (l*w*h) | 131 * 72 * 80 mm |
| Weight | 428 g |
| Chemical compatibility | |
| Wetted material | None |
| Gas compatibility | Dry, oil-free air (N2, O2, CO2), any non-corrosive or non-explosive gas |
| Software compatibility | |
| Fluigent OxyGEN version | 2.2.0.0 |
| LineUp™ LINK version | 1.08 |

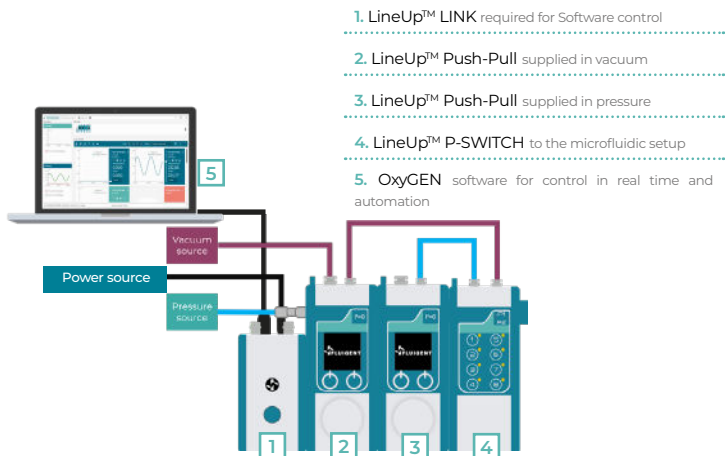
*The response time includes the valve actuation time and the data transmission delay

APPLICATIONS

- Rapid quake valve control
- Medium switching
- Sequential sample injection
- On-Demand droplets
- Medium perfusion switch for cell biology
- Microfluidics in Flow chemistry, Cell culture, ...

SETUP EXAMPLE AND COMPATIBILITY

The **LineUp™ P-SWITCH** is compatible with any **LineUp™ module** to provide finely regulated pressure or vacuum. The **LINK** allows the user to communicate with the PC and benefit from the use of **Fluigent's OxyGEN software** or **Software Development Kit (SDK)**



In this example, the Push-Pull [2] regulates pressure and vacuum, and provide vacuum to the P-SWITCH. The Push-Pull [3] regulates pressure and provides pressure to the P-SWITCH. Each independent outlet of the P-SWITCH can deliver pressure or vacuum to the microfluidic set-up