

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 (N ₂ , O ₂ , CO ₂), any non-corrosive or non-explosive gas
Software compatibility	
Fluigent OxyGEN version	2.2.0.0
LineUp™ LINK version	1.08

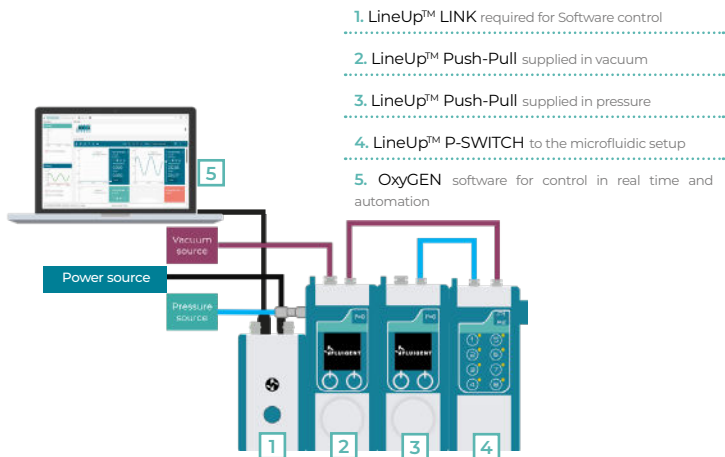
*The response time includes the valve actuation time and the data transmission delay

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