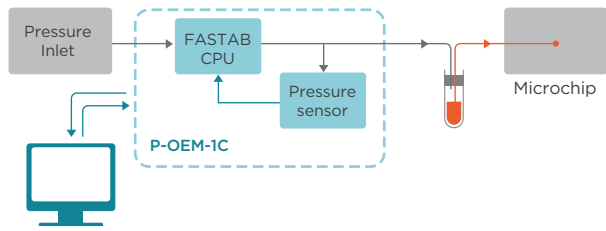
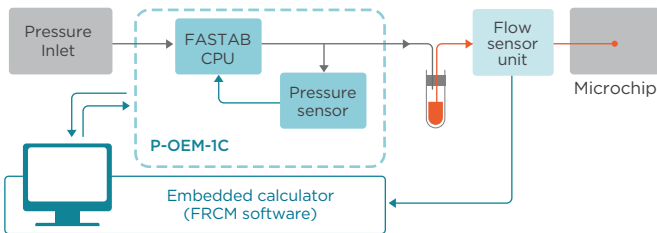




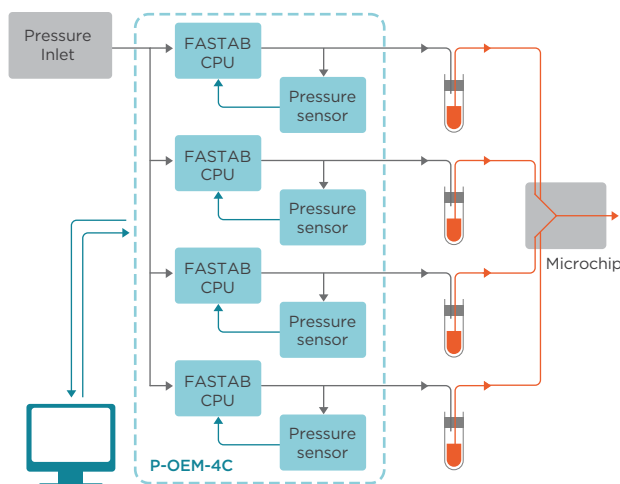
### Case 1 : SINGLE CHANNEL - NO FLOW-RATE CONTROL



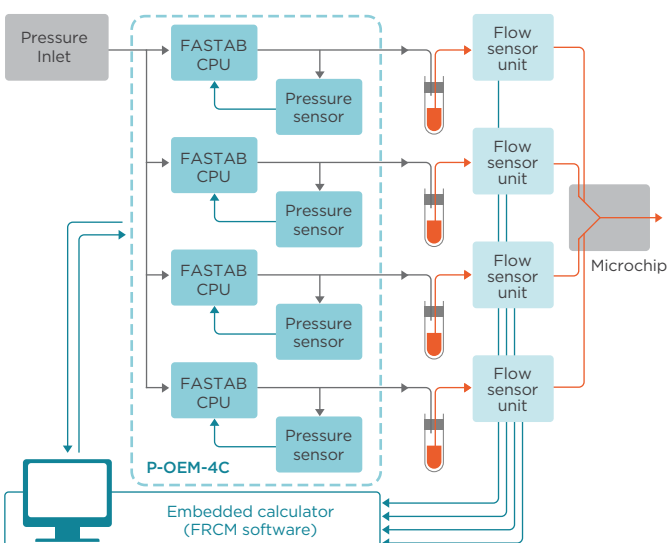
### Case 2 : SINGLE CHANNEL - WITH FLOW-RATE CONTROL



### Case 3 : MULTI CHANNELS - NO FLOW-RATE CONTROL



### Case 4 : MULTI CHANNELS - WITH FLOW-RATE CONTROL



#### Pressure control performances

##### Pressure ranges :

- 0-0.4 psi<sup>1</sup>
- 0-1 psi<sup>1</sup>
- 0-5 psi<sup>1</sup>
- 0-15 psi<sup>1</sup>
- 0-100 psi

**Pressure sensor resolution :** 0.03% Full Scale

**Settling time :** 100 ms<sup>2</sup>

#### Pneumatic interface

**Input pressure** requirements depend on system characteristics (number of units, pressure range, positive or negative pressure...)

**Neutral gaz, oil free, dry**

**Speedfit® connectors**

#### Electrical & mechanical characteristics

**Power input :** 24 VDC

**Current input :** P-OEM : 0.5A / PL-OEM : 1A

**Electrical connector :** screw terminals

**Protocol :** USB<sup>3</sup>

**Electrical connector :** screw terminals

#### Flow-rate control performances (with optional Flow Sensor Unit & optional Flow Rate Control Module software)

##### Flow-rate ranges :

- 0 to ±1.5 µl/min
- 0 to ±7 µl/min
- 0 to ±50 µl/min
- 0 to ±1 ml/min
- 0 to ±5 ml/min

**Flow-rate stability:** 0.2% CV

**Settling time<sup>4</sup>:** <1s

**Self assessment** of the fluidic system

**Self-compensation** of drifts due to environmental variations (temperature, hydrodynamic pressure, partial clogging,...)

#### External monitoring

**Pressure** control and monitoring

**Flow-rate** control and monitoring<sup>5</sup>

Multi-channel flow rate control with any level of channel coupling

**Liquid temperature** monitoring<sup>5</sup>

**High rate data logging** (100 ms)

**Capability to customize the fluidic process control**

for identification of different events (bubble detection, clogging detection, temperature drift)

**External device synchronization**

1 - Negative pressure available. Furthermore, positive & negative pressure can be applied on different channels of the same P/PL-OEM module

2 - Settling time is output volume dependent

3 - Other protocols RS485 based available on request

4 - Settling time is output volume dependent

5 - Available with Flow sensor unit