# DATASHEET

# LineUP Flow EZ™

## Flow controller for pressure based fluid control


## INTRODUCTION

The Flow EZ™ is the most advanced system available for pressure based flow control. The compact device stands alone near the microfluidic setup, allowing the user to minimize bench space use without the need of a PC. Be operational and generate data rapidly.

**Easy to use**

**Control with or without a PC**

**Modular & Adaptable**

**Intuitive software** including SDK for customized applications

**Compact**

## PRESSURE RANGES

| Part number | Pressure range | Required pressure supply | Maximum pressure supply |
|---|---|---|---|
| LU-FEZ-0025 | **0 to 25 mbar** (0 to 0,36 psi) | 150 mbar (0,22 psi) | 300 mbar (4.35 psi) |
| LU-FEZ-0069 | **0 to 69 mbar** (0 to 1,0 psi) | | |
| LU-FEZ-0345 | **0 to 345 mbar** (0 to 5,00 psi) | 1100 mbar (15,95 psi) | 1300 mbar (18.85 psi) |
| LU-FEZ-1000 | **0 to 1000 mbar** (0 to 14,50 psi) | | 1400 mbar (20.3 psi) |
| LU-FEZ-2000 | **0 to 2000 mbar** (0 to 29,01 psi) | 2100 mbar (30,46 psi) | 2600 mbar (37.7 psi) |
| LU-FEZ-7000 | **0 to 7000 mbar** (0 to 101,5 psi) | 7100 mbar (103,0 psi) | 7400 mbar (107.32 psi) |
| LU-FEZ-N025 * | **0 to -25 mbar** (0 to -0,36 psi) | -800 mbar (-11,6 psi) | N/A |
| LU-FEZ-N069 * | **0 to -69 mbar** (0 to -1,0 psi) | | |
| LU-FEZ-N345 * | **0 to -345 mbar** (0 to -5,00 psi) | | |
| LU-FEZ-N800 * | **0 to -800 mbar** (0 to -11,6 psi) | | |

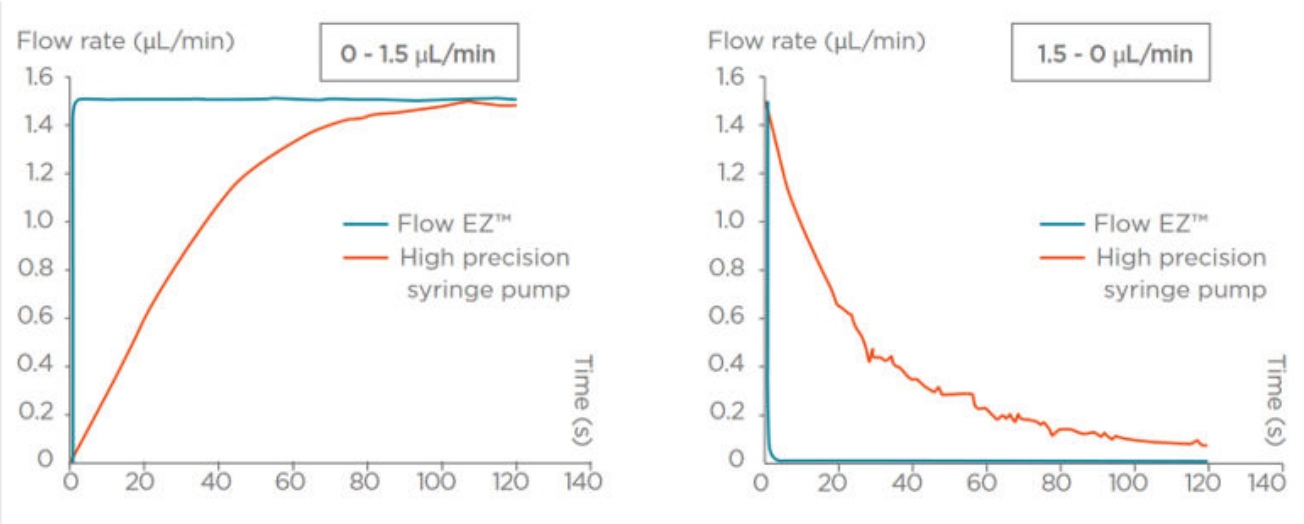

** For negative version of the Flow EZ™, Prevent any liquid from entering the device. A backflow filter or liquid trap reservoir can be used to avoid liquid flowing into pneumatic tubing.*

# SPECIFICATIONS

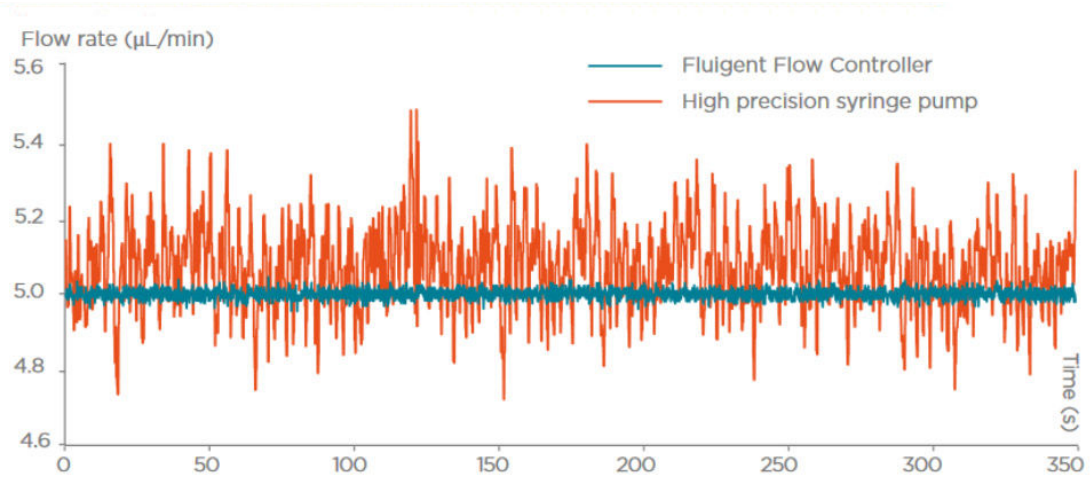
| | |
|---|---|
| **Performance** | |
| Resolution | 0,03% of maximum pressure |
| Pressure stability | 0,1% on the measured value (effective beyond 10% of the maximum pressure) |
| Accuracy | 0,25% full scale |
| Repeatability | <0,01% full scale |
| Response time | Down to 30 ms |
| Noise | Low noise <20 dB |
| **Standard Operating Conditions** | |
| Operating temperature | 20°C (68°F) |
| Operating humidity | 40% HR |
| **Dimensions & Weight** | |
| Dimensions L*W*H | 91,9 * 71,8 * 131 mm |
| Weight | 634 g |
| **Electronical Specifications** | |
| Power consumption | 6 W |
| **Chemical Compatibility** | |
| Gas compatibility | Dry, oil-free gas, air (N2 , O2 , CO2), any non corrosive or non explosive gas |
| Liquid compatibility | Aqueous solvent, oil, organic solvent, biological sample |
| **Storage Conditions** | |
| Storage temperature | 0° to 40°C |
| Storage humidity | 0-85% HR |
| **Software Compatibility** | |
| Fluigent software | OxyGEN |
| | Software Development Kit (SDK) |
| Firmware compatibility | Link module: v3.51<br>Flow EZTM module: v5.53 or v3.63* |

*If you have older version and facing some issues please contact us at support@fluigent.com to for an update of your Link or Flow EZ™ module.

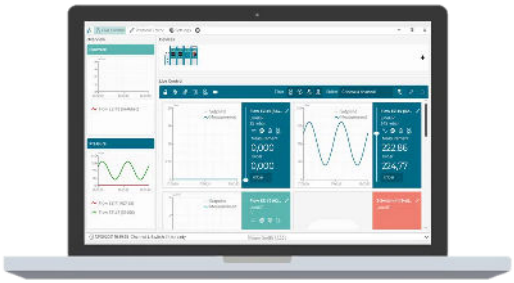
# RESPONSE TIME




# PRESSURE STABILITY




# SOFTWARE COMPATIBILITY



The **LineUP series** modules are compatible with **Fluigent's** newest software applications:

- **OxyGEN:** Complete interface to easily control, monitor, record data and automate time based protocols for all Fluigent instruments.
- **Software Development Kit:** Integrate Flow EZ™ seamlessly in existing applications. Available in C++, Labview, Matlab, Python, etc.

| Features | FLUIGENT Flow EZ™ | Other Pressure-Based Solutions | Syringe Pumps |
|---|---|---|---|
| Free standing (no PC needed) | ✓ | ✗ | ~ |
| Modular & expandable | ✓ | ✗ | ~ |
| Short response time | ✓ | ~ | ✗ |
| Pulseless flow | ✓ | ✓ | ✗ |
| Control & monitor display | ✓ | ~ | ~ |
| Very low gas consumption | ✓ | ✗ | NA |
| Compact | ✓ | ~ | ✗ |