

# PX Series Precision Pressure Controller

## General description

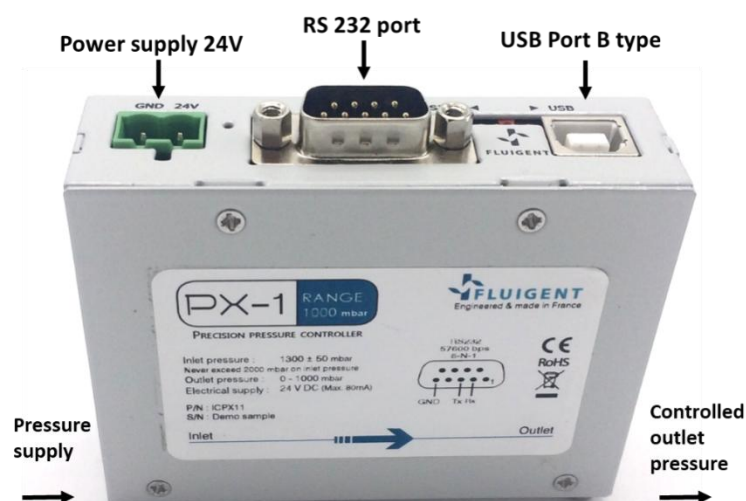
The FLUIGENT PX pressure controller is a single, miniaturized electronic pressure controller with integrated and intelligent feedback loop for highest performance. Its patented, field proven Fastab™ technology allows both fast settling times and outstanding stability. It provides a dual interface USB and RS232 for high versatility in the integration. The delivered software package is suitable for Windows and Linux platforms.

## Fields of Application

The PX controllers could be used for replacing manual regulators, vent orifices, needles valves or gravity for fluid flows.

Typical applications are flow control for microfluidics (e.g. droplet generation), carrier gas flow control, liquid handling (aspirate/dispense).

## Schematic Illustration



## Technical Data

### Mechanical Properties

Wetted Materials

Manifold: Aluminum

Valve: Brass, FKM/FFKM, Stainless Steel

Interior tubing: Silicone platinum

Pressure Sensor: High temperature polyamide, Epoxy, Silicone gel

Exhaust restrictor: NBR (o ring), Brass, PVA, polyethylene

Media: Clean and dry non-corrosive gases

Operating Environment: 4°C to 37°C

Storage Temperature: 0°C to 50°C

Dimensions: 82,4 x 25,7 x 67,9 mm

Weight: 192 g

Pneumatic Connection: M5 thread

## Electrical

Main voltage: 24 VDC

Power supply connector type: Phoenix contact MSTBA 2.5

Max. Electrical power consumption: 2 W

Max. Current requirement: 80mA

RS232 Connection: Sub DB9

USB Connection: USB B connector

## Specifications

Pressure ranges

PX-1 :0-1000 mbar (0-14,5 psi)

PX-2: 0-2000 mbar (0-29 psi)

PX-V: 0-minus 800 mbar (0-minus 11,6 psi)

Control range is 0 to 100% full scale

Standard Deviation: 0,06% full scale on the whole range

## Available Accessories:

M5-Speedfit 6 mm adapter

M5-Barbed adapter for Silicon tubing OD 3mm ID 1mm

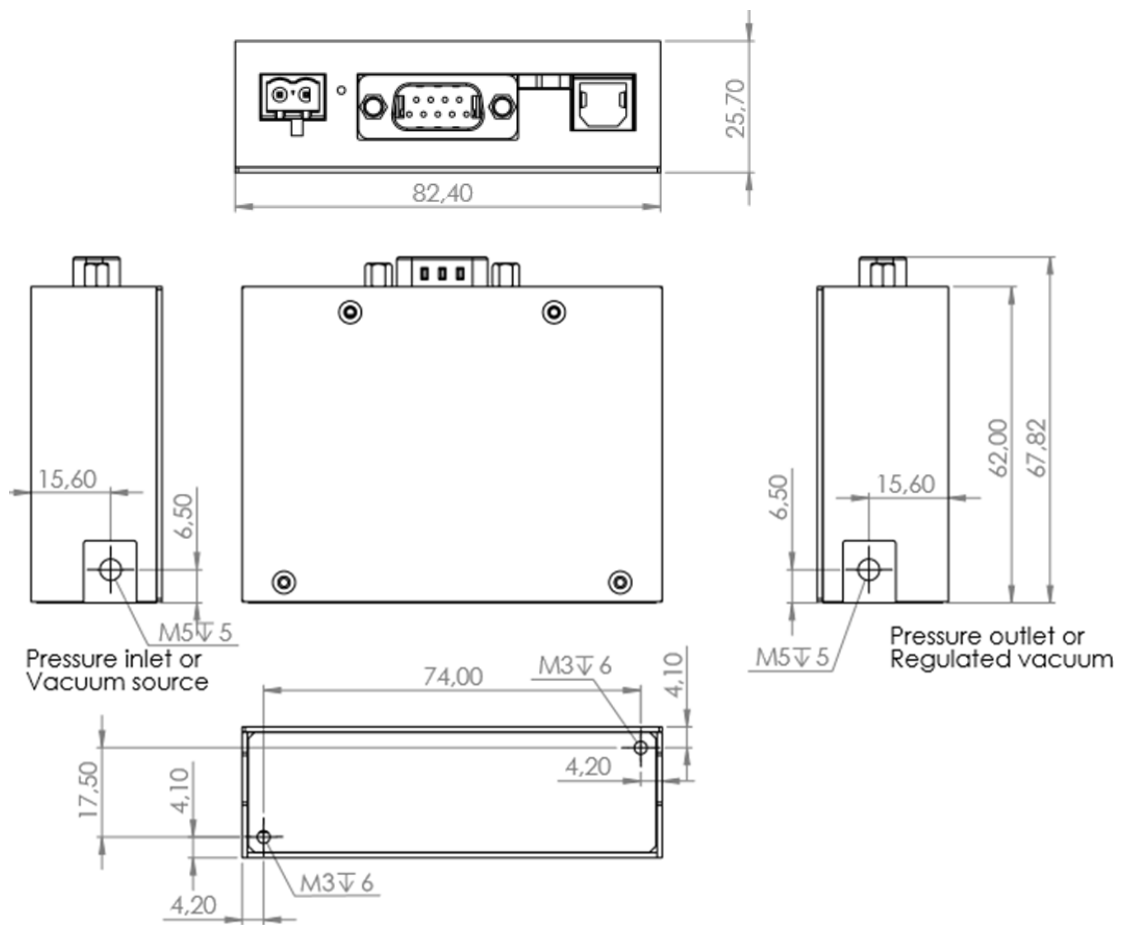
Sub DB9 cable

USB cable A to B

Mounting Plate

Adaptor for top hat rail

## Drawings with dimensions



## Certification, Warranty and Contact

The PX Series are CE and RoHS compliant.

FLUIGENT is ISO 9001 certified since 2010.

For repair, recalibration or recycling of this product, please contact :

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