



PX Specifications

Version : 1.0

	PX-1 (P/N: ICPX11)	PX-2 (P/N: ICPX21)	PX-345 (P/N:ICPX345)	PX-V1 (P/N: ICPXV1)	PX-V2 (P/N: ICPXV2)
Performance					
Available Pressure Ranges	0 to 1000 mbar (0 to 14.5 psi)	0 to 2000 mbar (0 to 29 psi)	0 to 345 mbar (0 to 5 psi)	0 to -600 mbar (0 to -8.7 psi)	0 to -750 mbar (0 to -10.8 psi)
Pressure stability	<0.5% full scale				
Accuracy	0.25% full scale				
Repeatability (1σ)	<0.01% full scale Standard deviation of mean values for same pressure order				
Sensor resolution	0.03% full scale				
Mechanical response time	<10ms				
Minimum settling time	<150ms Time to reach area between 95 and 105% of target pressure Measure done on a 2mL reservoir to reach 500mbar using a PX-1				
Typical settling time	6 sec (from 15 mL reservoir from 0 to 2 bar)				
Typical depressurization time	12 sec (from 15 mL reservoir from 2 to 0 bar)				
Mechanical					
Weight	192 g				
Dimensions	82.4 x 25.7 x 67.9 mm				
Manifold	Aluminum				
Valve	FKM/FKM, Stainless Steel				
Interior tubing	Silicon platinum				
Pressure sensor	High temperature polyamide, Epoxy, Silicone gel				
Exhaust restrictor	NBR (o ring), Brass, PVA, polyethylene				
Operating temperature range	-10°C to 80°C				
Storage temperature	-40° to 85°C				
Operating humidity	0-100% HR				
Storage humidity	0-100% HR				
Operating pressure supply	1300mbar +/- 50 mbar (18.8 psi +/- 0.72 psi)	2400mbar +/- 50 mbar (34.8 psi +/- 0.72 psi)	800mbar +/- 50 mbar (11.6 psi +/- 0.72 psi)	Vacuum below -300 mbar (-4.35 psi)	Vacuum below -300 mbar (-4.35 psi)
Maximum inlet pressure	2000 mbar (29 psi)	3000 mbar (43,5 psi)	2000 mbar (29 psi)	NA	
Operating vacuum supply	NA			-900 mbar +/- 50 mbar	-900mbar +/- 50 mbar
Internal leakage	<0,35 l/min				
Sensor type	Piezzo resistive silicon pressure sensor				
Pneumatic connections	M5 thread				
Mounting type	DIN rack (in option)				
Gas Compatibility	Clean and dry non-corrosive gases				

For additional information, please contact us by email: contact@fluigent.com or consult our website: www.fluigent.com

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Gas temperature	4°C to 37°C
Electrical	
Digital communication interface	USB, RS232
Readout sample time	5 ms
RS232 connection	Sub DB9
Power supply connector type	Phoenix contact MSTBA 2.5
Power supply	24 VDC
Current supply	80 mA
Maximum power consumption	2 W
Data Update Rate - data refresh rate	10 Hz
Digital Data Update Rate - internal refresh rate	10 Hz
Digital communication protocol	USB, RS232
Compatible operated system (OS)	Windows, Linux, MacOS
Software control	OxyGen or SDK