

PRESSURE UNIT

IN-LINE PRESSURE SENSOR

EIPS345
EIPS1000
EIPS7000



The **PRESSURE UNIT** is a stand-alone sensor to measure the pressure applied in a fluidic path, whether for liquid or gas. The product range can detect values **from -1000 mbar (-15 psi) to 7000 mbar (100 psi)**. The sensor can be directly plugged to a PC with USB connection and display the measurement on **Fluigent OxyGEN** software interface. This can also output the values for custom software application using the **Software Development Kit**.

BENEFITS



Compact device
Dedicated for benchtop use



Wide range of detection
Range from -1000 to 7000 mbar



Ease of use
Operate within a minute



Plug & Play
Connect directly to the PC

SPECIFICATIONS

Pressure range				
Product range	S		M	XL
Part Number	<i>EIPS345</i>		<i>EIPS1000</i>	<i>EIPS7000</i>
Pressure range	69 mbar	345 mbar	1000 mbar	2000 mbar
	1 psi	5 psi	15 psi	30 psi
Pressure min-max	-345 to + 345 mbar		-1000 to + 1000	-1000 to +7000 mbar
Max overpressure	1380 mbar	3100 mbar	13800 mbar	
	20 psi	45 psi	200 psi	
Accuracy mean (% of max range)	2 to 3 mbar	10 to 20 mbar	16 to 40 mbar	
	0.6% typ. to 0.9%	1.0% typ. to 2.0%	0.3% typ. to 0.6%	
Zero shift	6.9 mbar (2% span)	10 mbar (1% span)	70 mbar (1% span)	
Repeatability / Hysteresis	1.4 mbar (0.4% span)	2.0 mbar (0.2% span)	14 mbar (0.2% span)	
Technical specifications				
Measurement sampling	40 ms		40 ms	40 ms
Internal volume	22 µL		22 µL	22 µL
Compensated temperature range	0 to 50°C		0 to 50°C	0 to 50°C
Connection fittings	1/4"-28 Flat bottom		1/4"-28 Flat bottom	1/4"-28 Flat bottom
Recommended tubing	1/16" OD		1/16" OD	1/16" OD
Dimensions	50 x 30 x 20 mm		50 x 30 x 20 mm	50 x 30 x 20 mm
Material	PEEK, EPDM, Silicon		PEEK, EPDM, Silicon	PEEK, EPDM, Silicon
Maximum operating altitude	Up to 2000 m		Up to 2000 m	Up to 2000 m
Maximum relative humidity	80% (0°C to 31°C)	80% (0°C to 31°C)	80% (0°C to 31°C)	
	50% (until 50°C)	50% (until 50°C)	50% (until 50°C)	
Electrical specifications				
Voltage range (Direct current)	5V		5 V	5 V
Maximal power	10 mW		10 mW	10 mW

