

Differential Gas Pressure Sensor 50 kPa



Product Description

The 1138 Differential Pressure Sensor is a dual ported air pressure sensor that measures the pressure difference between the two ports. It can measure pressure from 0 kPa to 50 kPa.

Comes Packaged with

- [3002 – 60cm Phidget Cable](#)

Warning



This sensor is designed to measure the pressure of clean, non-condensing air. Contact with moist air (i.e, human breath), dusty air, or other gases can damage the sensor.

Product Specifications

Sensor Properties

Sensor Type	Gas Pressure (Differential)
Sensor Output Type	Ratiometric
Pressure Min	0 Pa
Pressure Max	50 kPa
Pressure Resolution	56 Pa
Measurement Error Max	$\pm 2.5 \%$
Warm-up Time	20 ms
Response Time Max	1 ms

Electrical Properties

Supply Voltage Min	4.8 V DC
Supply Voltage Max	5.3 V DC
Current Consumption Max	10 mA
Output Impedance	1 k Ω
Output Voltage Min	250 mV DC
Output Voltage Max	4.8 V DC

Physical Properties

Operating Temperature Min	-40 °C
Operating Temperature Max	125 °C
Recommended Tubing Size	3 mm