

Differential Air Pressure Sensor 100 kPa



Product Description

Note: The 1139_0B is identical to the 1139_0, except that you have the option of which size of Phidget cable to include.

The 1139 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 100 kPa.

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

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Sensor Properties	
Sensor Type	Gas Pressure (Differential)
Controlled By	VoltageRatio Input
Sensor Output Type	Ratiometric
Pressure Differential Min	0 Pa
Pressure Differential Max	100 kPa
Case Pressure Max	400 kPa
Pressure Resolution	111 Pa
Measurement Error Max	± 2.5 %
Warm-up Time	20 ms

Response Time Max	1 ms
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Electrical Properties

Supply Voltage Min	4.8 V DC
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Supply Voltage Max	5.3 V DC
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Current Consumption Max	10 mA
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Output Impedance	1 kΩ
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Output Voltage Min	250 mV DC
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Output Voltage Max	4.8 V DC
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Physical Properties

Operating Temperature Min	-40 °C
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Operating Temperature Max	125 °C
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Recommended Tubing Size	3/32"
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Customs Information

Canadian HS Export Code	8473.30.00
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American HTS Import Code	8473.30.51.00
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Country of Origin	CN (China)
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