

Absolute Gas Pressure Sensor 15-115 kPa



Product Description

Note: The 1141_1B is the same as the 1141_0, except it has a different sensor that has an upward-facing port and you have the option of which size of Phidget cable to include.

The 1141 Absolute Pressure Sensor is an air pressure sensor that measures the absolute pressure of its environment. It can measure pressures from 15 kPa to 115 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

Sensor Properties

Controlled By	VoltageRatio Input
Sensor Type	Gas Pressure (Absolute)
Sensor Output Type	Ratiometric
Pressure Min	15 kPa
Pressure Max	115 kPa
Case Pressure Max	400 kPa
Pressure Resolution	111 Pa
Measurement Error Max	$\pm 1.5 \%$
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 kΩ
Output Voltage Min	200 mV DC
Output Voltage Max	4.8 V DC

Physical Properties

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

Customs Information

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