

Absolute Gas Pressure Sensor 20-400 kPa



Note: The 1140_1B is the same as the 1140_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 1140 Absolute Pressure Sensor is an air pressure sensor that measures the absolute pressure of its environment. It can measure pressures from 20 kPa to 400 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	20 kPa
Pressure Max	400 kPa
Case Pressure Max	1.6 MPa
Pressure Resolution	413 Pa
Measurement Error Max	± 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 k Ω
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"