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

Pressure Max

Case Pressure Max

Pressure Resolution

Measurement Error Max

Warm-up Time

Response Time Max

15 kPa

400 kPa

111 Pa

111 Pa

20 ms

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 $1 \text{ k}\Omega$

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)