



Products for USB Sensing and Control

Display all prices in:

USD

Search

Fast Add

SBC

I/O Boards

Sensors

Distance

Encoders

FSR

Gas Pressure

Light/Sound

Load Cells

Motion

pH/ORP

Potentiometers

Proximity

Temperature/

Humidity

Touch

Voltage/Current

Motors

Linear Actuators

Servo Controllers

Servo Motors

DC Controllers

DC Motors

DC Motors w/

Encoders

Stepper Controllers

Stepper Motors

Hardware

Relays

RFID

Remote Control

LCD Displays

Adapters

LEDs

Switches

Fuses/Protection

Cables

USB Hubs

Power Supplies

Kits

Enclosures

Clearance Sale

Discontinued

End-of-Life

1141_0 - Absolute Air Pressure Sensor 15-115 kPa

Quantity	Price
1	\$32.00
5	\$30.75
10	\$29.80
25	\$28.80
100	\$27.85

In Stock

Qty: 320

Add

1



Product Features

This absolute air pressure sensor plugs into an [analog input](#) and measures pressure from 15 kPa to 115 kPa.

Resources

- [User Guide](#)
- [Mechanical Drawings](#)
- [Download 3D Step File](#)
- [Programming Resources](#)

Comes Packaged with

- [3002 - 60cm Sensor Cable](#)

Related Products

If you need a sensor with a wider measurement range, this sensor is a good choice:

- [1140 - Absolute Air Pressure Sensor 20-400 kPa](#)

If you need a sensor that can measure a negative or positive pressure difference between two ports, have a look at these differential sensors:

- [1136 - Differential Air Pressure Sensor ±2 kPa](#)
- [1137 - Differential Air Pressure Sensor ±7 kPa](#)
- [1126 - Differential Air Pressure Sensor ±25 kPa](#)

If you're only interested in positive pressure measurement between two ports, these differential sensors will do the trick:

- [1138 - Differential Air Pressure Sensor 50 kPa](#)
- [1139 - Differential Air Pressure Sensor 100 kPa](#)

Code Samples For This Product

C# (Windows)

Product Description

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.

Product Specifications

Sensor Properties

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	± 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 "

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.