



Explore the relationship between pressure and temperature in real time



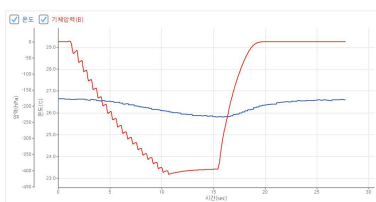
This sensor measures atmospheric pressure and temperature simultaneously, allowing students to observe how these two variables change together.

With real-time data collection, learners can explore scientific principles such as Boyle's Law, cloud formation, and other weather-related experiments, linking classroom theory with real-world phenomena.

Wireless connectivity and the Science# app make it easy to set up experiments and analyze results interactively.

Key Features

- Measures atmospheric pressure and temperature at the same time
- Wireless data transfer for a simple and flexible classroom setup
- Real-time monitoring with automatic graphing and analysis in the Science# app
- Easy integration into a variety of STEM experiments



Pressure-Temperature Relationship (Charles's Law)

Science#



Technical data

■ Measurement performance	Range	300 ~ 1100hPa - 40 ~ 60°C
	Resolution	0.01°C, 0.1hPa
	Accuracy	Pressure: ±0.1% (typical) Temperature: ±0.2°C
	Data update interval	10 Samples / second
	Sampling rate*	100 Hz (Available in Science#)

■ General Conditions	Display	OLED 0.96" (128*64 pixel)
	Operating Power	Li-Poly Rechargeable Battery (700mAh)
	Power Consumption	0.3W
	Power Requirements	USB (DC 5V, 0.5A)
	Battery life **	Approximately 8 hours(after full charge)
	Wireless Connection	Bluetooth 5.0 or 2.1+EDR
	Wired Connection	USB 2.0(Type-C)
	Operating Environment	-20 to 60°C, Max. 85%RH
	Compliance	EN 61326-1, EN 55011, EN 55032, EN 301. CE, RoHS, SMD070

■ Mechanics specifications	Dimension(WxLxH,mm)	85 x 42 x 18.4mm
	Weight	47 g (1.65 oz)
	Housing Materials	PC+ABS

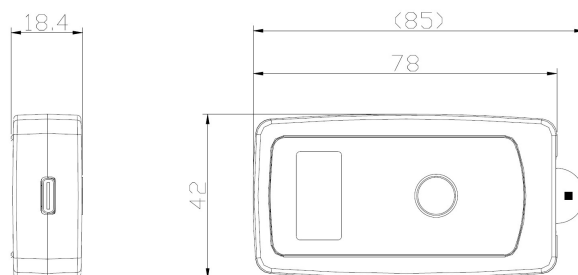
* The sample rate refers to how often the app records data, which may differ from the sensor's actual update interval.

** Battery life varies by use, configuration, temperature, and many other factors; actual results will vary.

Application

- Investigate Boyle's Law by studying pressure-temperature relationships
- Simulate and observe cloud formation processes
- Explore weather patterns and atmospheric changes
- Connect physics and earth science concepts with hands-on experiments

Product Appearance Design



Notices

- This product is to be used for educational purposes only. It is not appropriate for industrial, medical, research, or commercial applications.
- Our products and the contents are subject to change without any notice. In consequence we cannot assume responsibility for any consequential or other damage resulting from the use of this instrument.

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