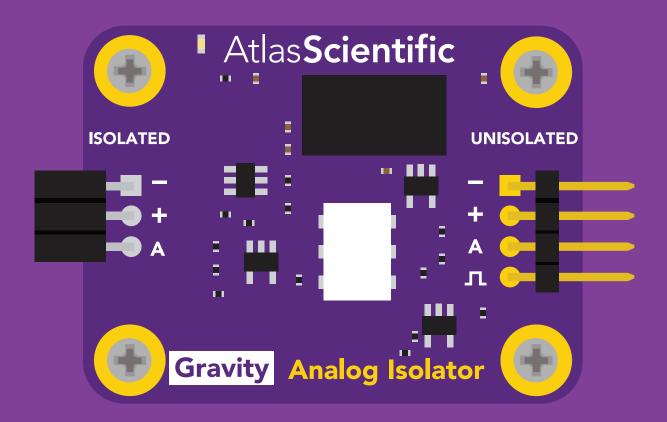


V 1.5Revised 6/21

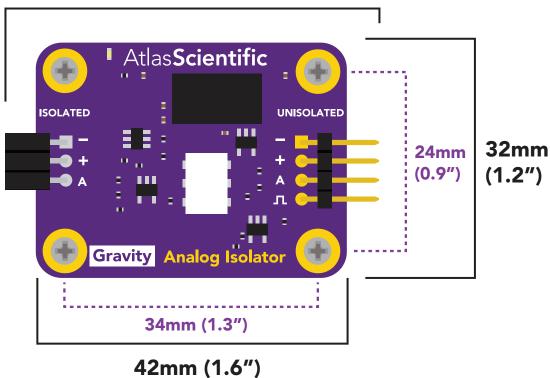
Gravity Analog isolator

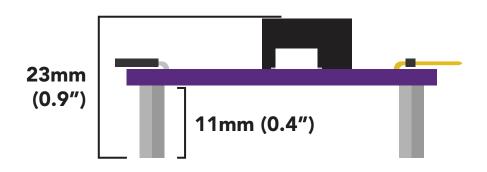




Gravity dimensions

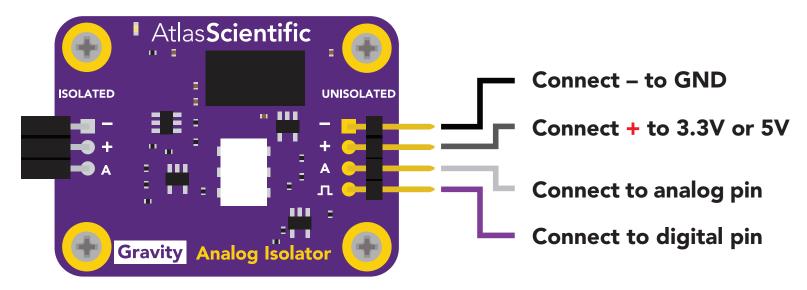
48.6mm (1.9")



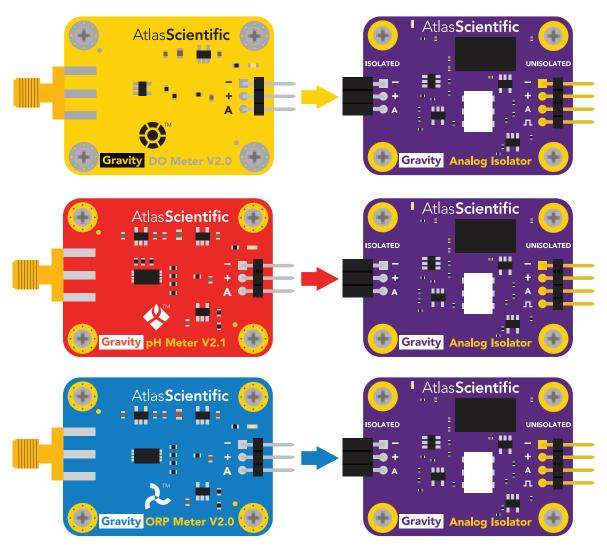


Current consumption			5V	3.3V
23mA 5V	15.7mA 3.3V	Gravity [™] Analog pH	26mA	18.7mA
		Gravity [™] Analog ORP	26mA	18.7mA
		Gravity [™] Analog D.O.	26mA	18.7mA

Connection pins

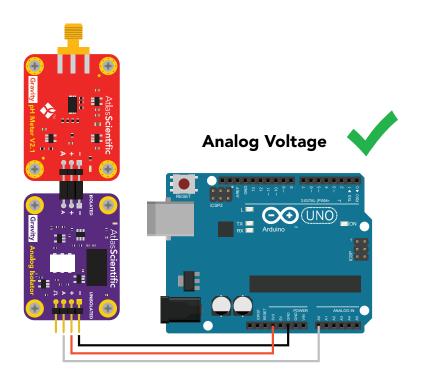


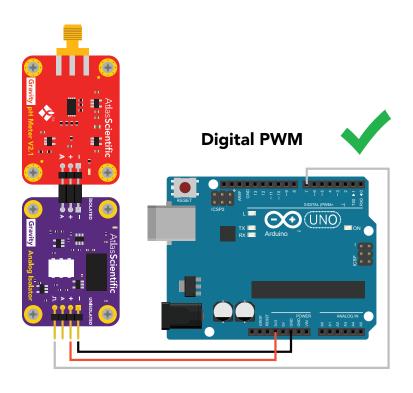
The Gravity[™] Analog Isolator mates with Atlas Scientific Gravity[™] Analog Sensors / Meters through their 3 pin headers.

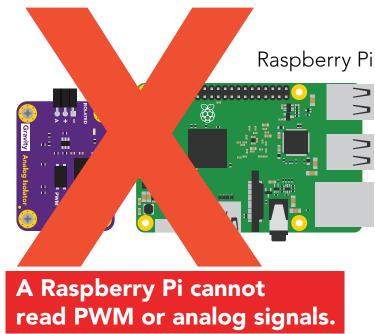




Wiring diagram



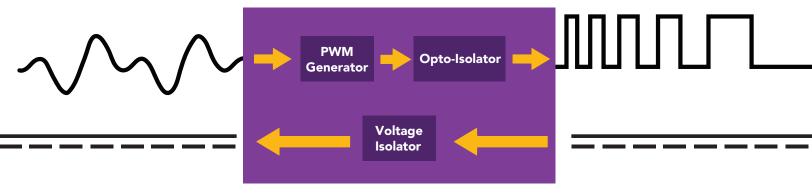






Operating principle

There is no simple way to isolate an analog signal without converting it to something else; this isolator uses pulse width modulation (PWM) to encode the analog pH readings.



Block diagram of the analog isolator

The output of the analog isolator is a 10.6 Khz square wave. No matter what the reading is, the frequency is always 10.6 kHz. The data is encoded in the width of each square wave, PWM (pulse width modulation).

