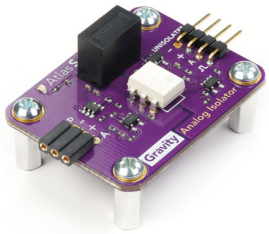
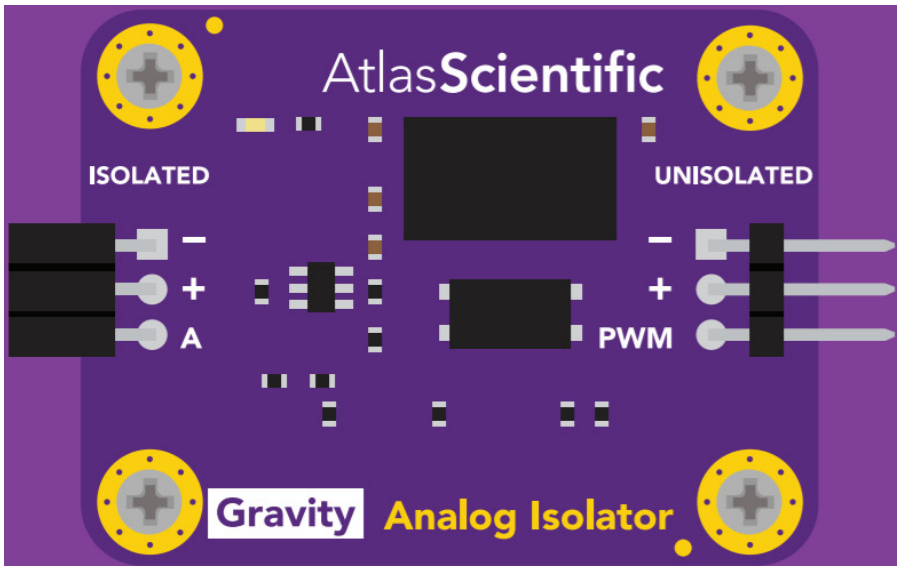


AtlasScientific Gravity Analog isolator User Guide

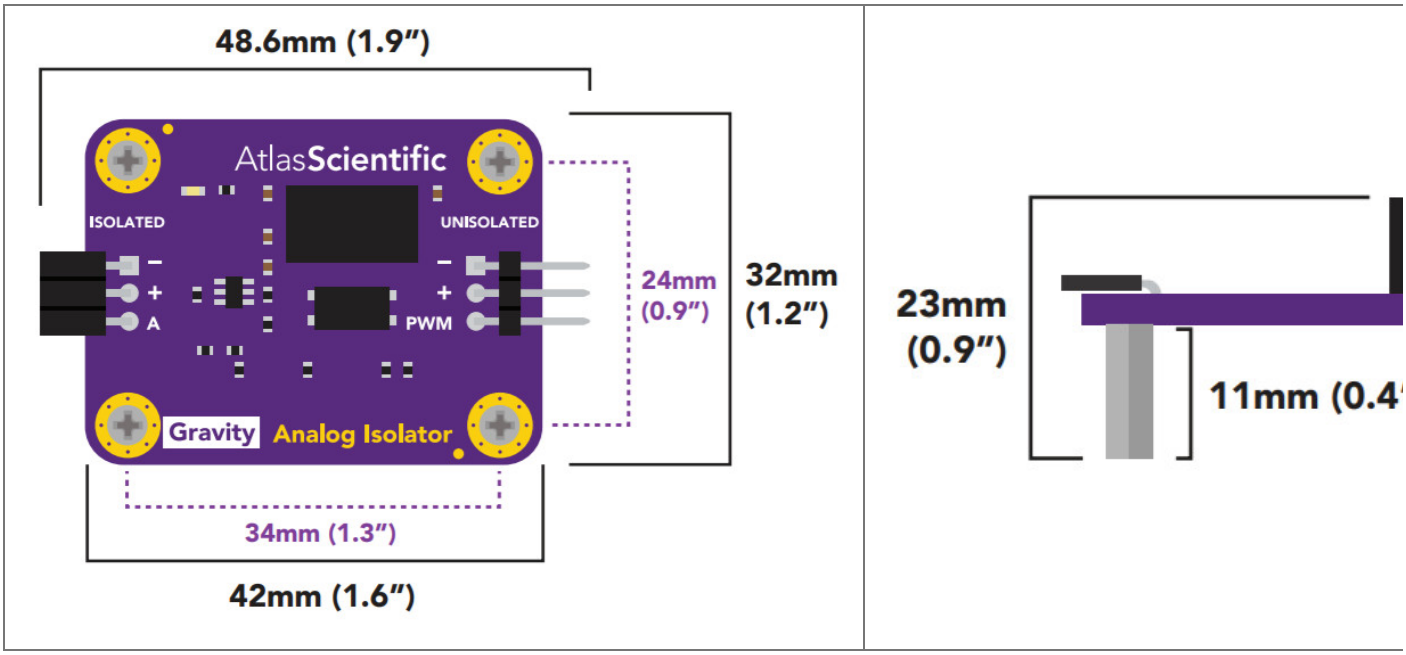
V 1.2
Revised 10/20
Gravity™ Analog isolator



Written by Jordan Press Designed by Noah Press
This is an evolving document, check back for updates.

Contents

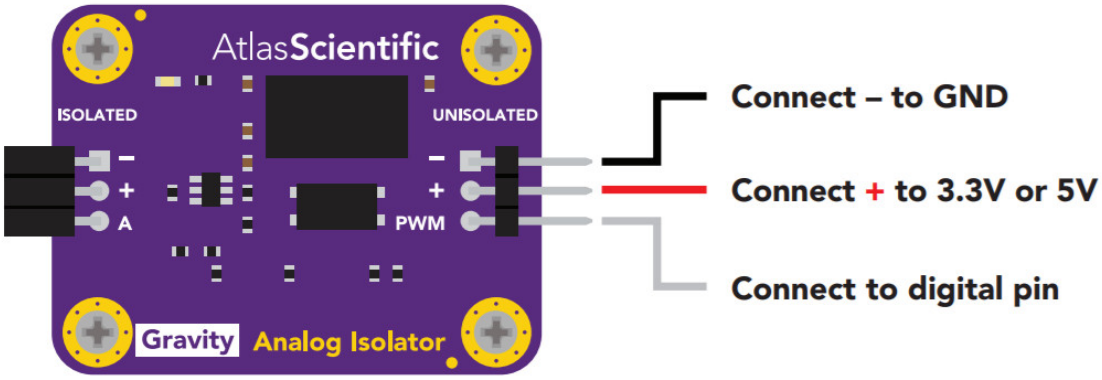
Gravity dimensions



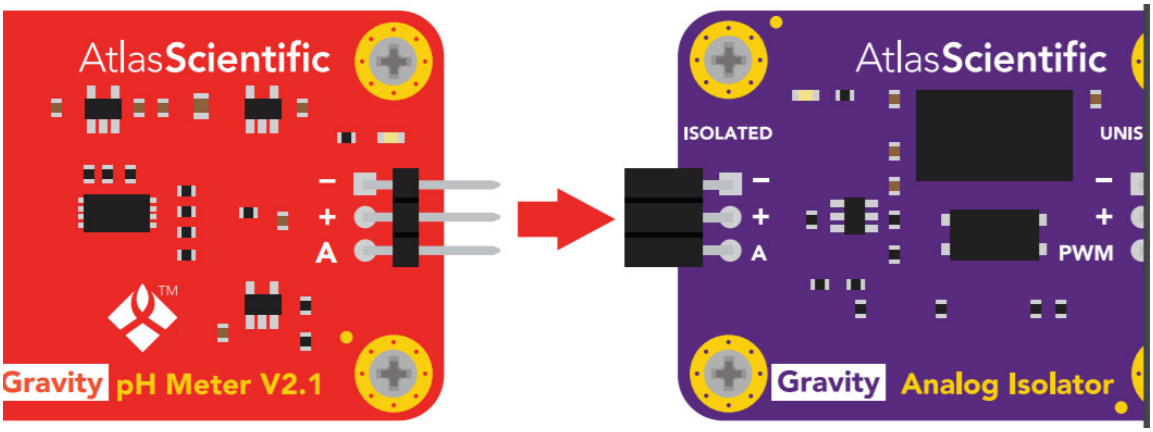
Current consumption

23mA 5V	**15.7mA 3.3V**		**5V**	**3.3V**
		Gravity™ Analog pH	26mA	18.7mA
		Gravity ™ Analog ORP	26mA	18.7mA
		Gravity™ Analog D.O.	26mA	18.7mA

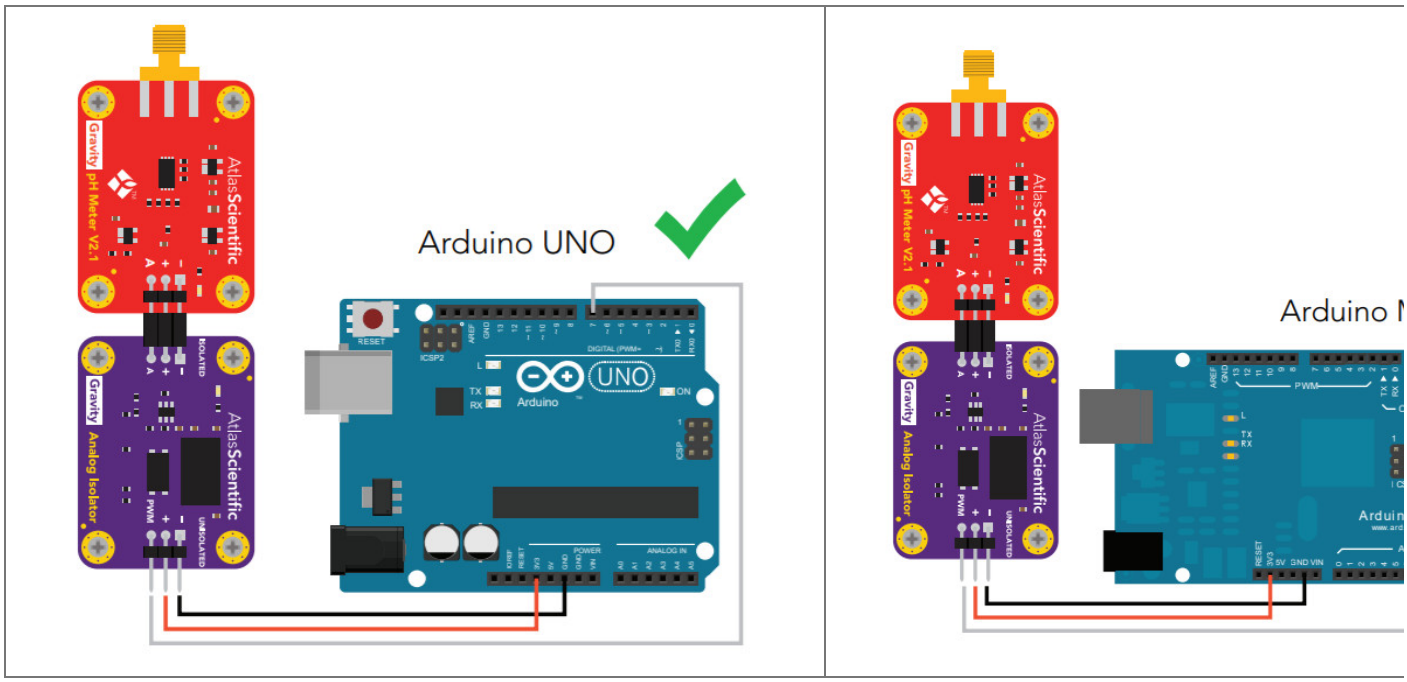
Connection pins

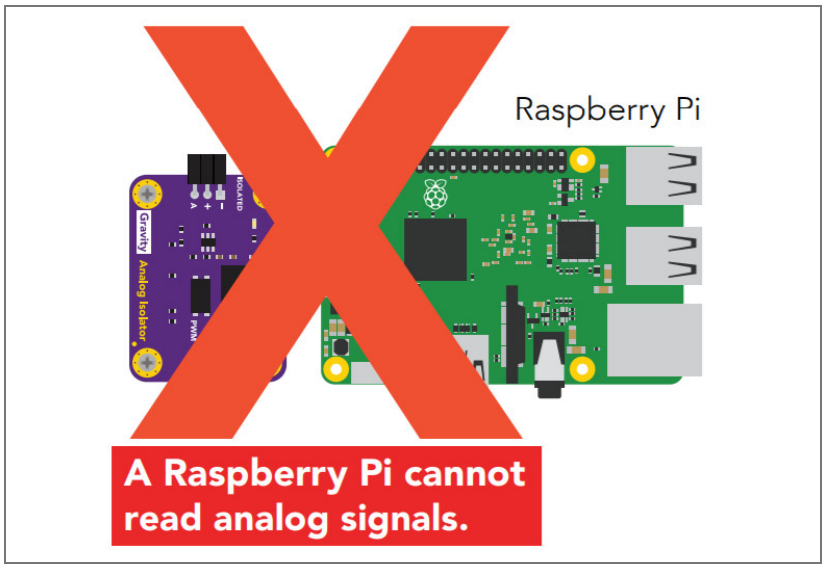


The Gravity™Analog Isolator mates with Atlas Scientific Gravity™Analog Sensors / Meters through their 3 pin headers.



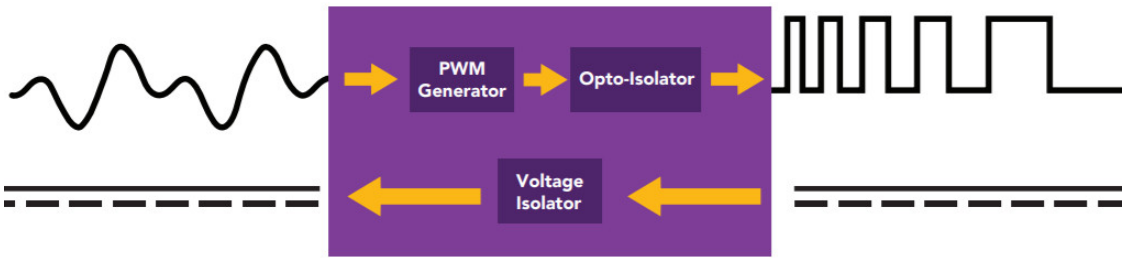
Wiring diagram





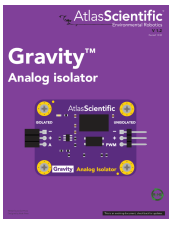
Analog isolation

Isolating an analog signal is a challenging task, there is no single component that can do this. The Gravity™ Analog Isolator uses three components to achieve this, a voltage isolator, a PWM generator, and an Opto-isolator. The Voltage Isolator is needed to supply the Gravity™sensor. The PWM generator converts an analog signal to a square wave, which can then pass through the Opto-isolator.



AtlasScientific™
Environmental Robotics

Documents / Resources

	AtlasScientific Gravity Analog isolator [pdf] User Guide AtlasScientific, Gravity, Analog, isolator