



G-Force Accelerometer Sensor

Wireless Accelerometer - G-Force Snapshot Sensor is a digital, low-power, low-profile, capacitive sensor that is able to measure acceleration on three axes to determine inclination.

- Takes 3-axis g-force measurements
- 4096 count/g sensitivity



IIS-AC-GS

Supply voltage		2.0–3.8 VDC (3.0–3.8 VDC using power supply) *
Current consumption		0.2 μ A (sleep mode), 0.7 μ A (RTC sleep), 570 μ A (MCU idle), 2.5 mA (MCU active), 5.5 mA (radio RX mode), 22.6 mA (radio TX mode)
Operating temperature range (board circuitry and battery)		-40°C to +85°C (-40°F to +185°F) **
Included battery	Max temperature range	-40° to +85°C (-40° to +185°F)
	Capacity	1500 mAh
Optional solar feature	Solar panel	5VDC/30mA (53mm x 30mm)
	Charging temperature range	0° to 45°C (32° to 113°F)
	Max temperature range	-20° to 60°C (-4° to 140°F)
	Included rechargeable battery	600 mAh/>2000 charge cycles (80% of initial capacity)
	Solar efficiency	Optimized for high and low-light operation ***
	Charging efficiency	40% ****
Luminous sustainability		250 LUX ****
Sensitivity		4096 count/g
Sensitivity range selections		+/-2 G, +/-4 G, +/-8 G
Measurement accuracy		\pm 2.5 % (force: X, Y, Z)
Minimum g-force to turn on/wake up		0.050–0.100 g
Fastest update interval/heart rate in any configuration		Heartbeat: 1 minute
Bandwidth for data measurement		800 Hz
Integrated memory		Up to 3200 sensor messages
Wireless range		1,200+ ft non-line-of-sight
Security		Encrypt-RF® (256-bit key exchange and AES-128 CTR)
Weight		4.7 ounces
Enclosure rating		NEMA 1, 2, 4, 4x, 12 and 13 rated, sealed and weather proof
UL rating		UL Listed to UL508-4x specifications (File E194432)
Certifications		900 MHz product; FCC ID: ZTL-G2SC1 and IC: 9794A-G2SC1. 868 and 433 MHz product tested and found to comply with: EN 300 220-2 V3.1.1 (2017-02), EN 300 220-2 V3.1.1 (2017-02) and EN 60950



* Hardware cannot withstand negative voltage. Please take care when connecting a power device.

** At temperatures above 100°C, it is possible for the board circuitry to lose programmed memory.

*** Light present 25% of day yields 125% of operating power to support 10-minute heartbeats.

**** Solar feature's energy harvesting circuitry works indoors with low light.