



RuBee Gen3 Sensor Tag

*Temperature, Humidity, Pressure,
Shock, Vibration, and Motion*

Key Features The RuBee Gen3 Sensor Tag is a wireless monitoring device for military and industrial applications. It has been packaged in a smaller form factor and includes vibration sampling.

The tag has a battery life of 10-25 years @ 25 °C and six sensors including temperature, humidity, pressure, 3 axis acceleration, vibration, and motion. The tag comes standard with high and low resolution histograms, 200g accelerometer, excursion traces, and a 9.2K event data log.

The tag has a RuBee (IEEE 1902.1) wireless link that is explosive safe (HERF ZERO), fused ordnance safe (HERO ZERO), and physically secure with no significant compromising emanations

Technical Specifications

USB

- For upgradability and full data downloads at high speed (optional)

Event Log

- 9212 events for Temperature, Humidity, and Pressure

Excursion Events

- 8 Threshold Excursion Traces for Temperature, Humidity, and Pressure
- 15 Shock Traces
- Power Spectral Density 0 to 750 Hz at 1.5 Hz interval

Software Application

- JSON Format of all data
- Ability to reload data from a file
- Configurable Triggers, time sampling, vibration parameters, and clear readings
- Event date/time coordinated traces and Temperature, Humidity, and Pressure logs
- Optional motion sensor to detect movement or tampering
- Compatible with MiniCom, RuBee Basestations (Sidewinder, Viper), and direct to tag USB
- Battery level monitor and health checks
- Compatible with Windows, Linux, and Mac Operating Systems





TSS-A704 RuBee Gen3 SuperSensor Tag

Technical Specifications

1.	Size	• 2.90" x 1.15" x 0.81" (10 and 15 year) • 2.90" x 1.70" 0.81"(25 year)
2.	Battery Life	• 10 year: 2/3AA • 15 year: AA • 25 year: 2xAA
3.	Environment	• MIL STD 810H • IP68
4.	Sensors	• Temperature: -40C to 85C, 0.5C Resolution • Humidity: 0% to 100%, Resolution 3% (0-80%), 5% (80-100%) • Pressure: 300 to 1200 mBar, Resolution 0.5 mBar • Shock: 3 Axis +- 200g, Resolution 0.1g • Vibration: 3 Axis +- 16g, Resolution 0.1g
5.	Emissions	• HERO and HERF Safe • No Significant Compromising Emanations: Tempest, Target, and Eavesdropping • ATEX Zone 0, UL Class I Div I
6.	Additional Features	• 9.2K Event Extended Data Event Log • High and Low Resolution Histogram • Datalog with Date/Time Stamp based on sensor thresholds (user defined)

Sensor Envoy Screenshots

Group Check Live Temperature Pressure Humidity Shock Vibration Motion Story Config Data

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Discover Tag

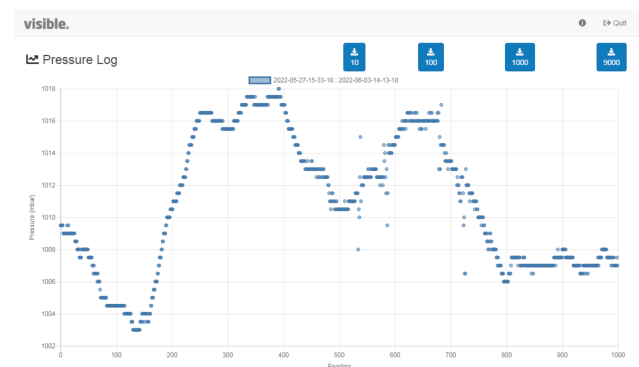
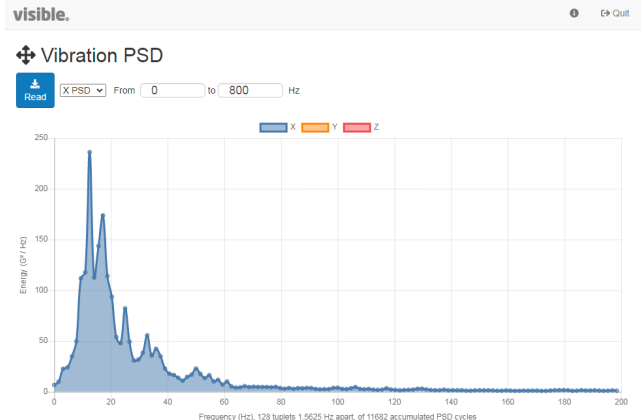
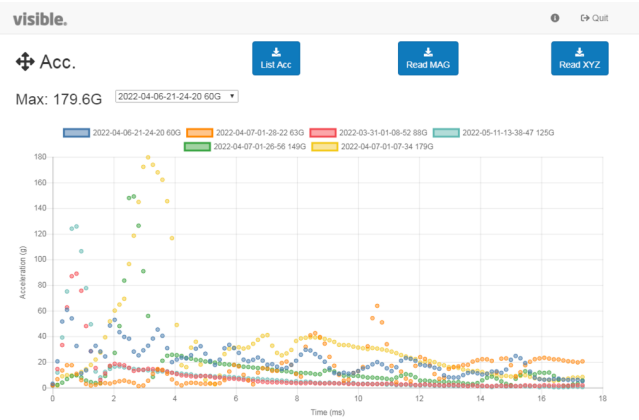
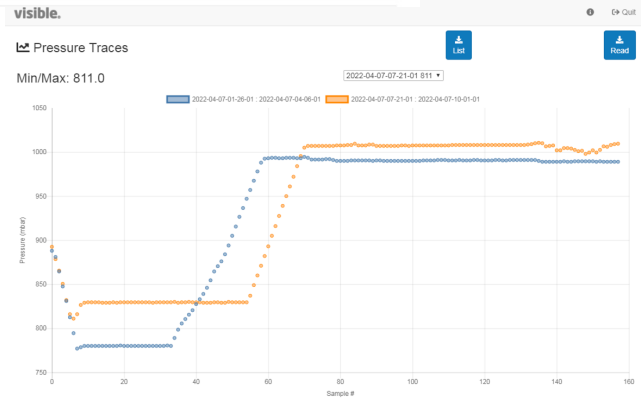
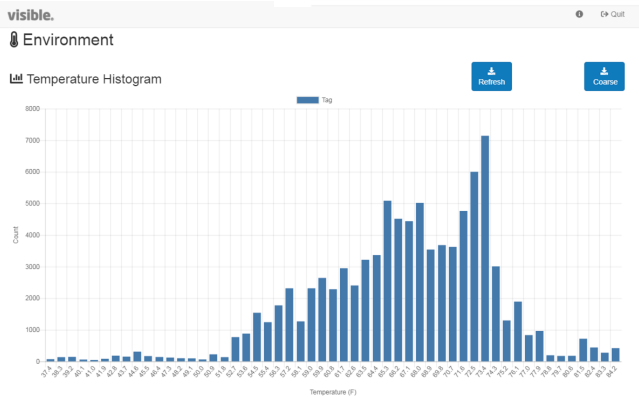
Reader: RuBeedReader RuBeedReader
Tag Type: PHATV/m Distance to Tag: 1

Status battery 2.98 volts, 15.0 years remaining, age 66 days Visible46

Read Status

Threshold Violations (Red Flags)

Temp.	Temp2.	Press.	Humid.	Vib.	Shock.	Motion.
1	0	1	0	6	4	
Sensing Active	Pause Sensing	Clear All Data				



visible.

Option	Value		
Temp. Low	-50	+	Set
Temp. High	15	+	Set
Temp. 2 Low	-25	+	Set
Temp. 2 High	-1	+	Set
Press. Low	900	+	Set
	13.1 PSI		
Press. High	1100	+	Set
	16.0 PSI		
Hum. Low	5	+	Set
Hum. High	25	+	Set
Year Interval	600	+	Set
Live Interval	5	+	Set