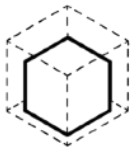
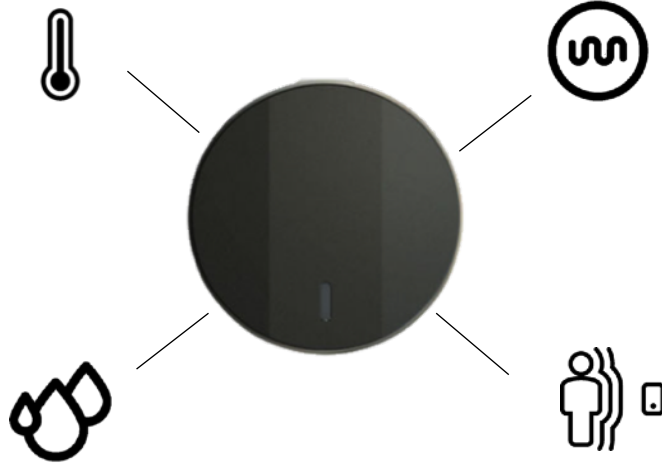


DATA SHEET



Compact Design



Custom Deployment



Data driven decisions



Wide Applications



Over the air Updates



Water and Dust resistant

By using COIN sensor nodes, early machine failure can be predicted thus allowing for timely action and preventing a major failure down the line, food and goods losses can be reduced to a larger extent, productivity of your employees can be increased, wait time due to search of assets can be reduced and illegal intrusion can be prevented.

Compact Design

Small and compact design with multiple sensors like Temperature, Humidity, Accelerometer and Gyroscope.

Data Driven Decision

Using COIN, the user can monitor key metrics, analyze past trends, generate reports and analyze data to get actionable insights of the operations. Our machine learning algorithms can also predict failure of your assets.

Wide Applications

COIN can be used for a wide range of applications such as Condition Monitoring, Security solutions for perimeter, Real Time Locating systems for Asset Tracking, Geo Fencing solutions, People tracking and many more.

Custom Deployment

Monitor Temperature, Humidity, Motion, Vibration, Assets and People in real time. Get alerts and notification in real time. Displacement, velocity and acceleration can also be monitored in real time.

SenseGiz SaaS

Monitor and control all the sensors from our dashboard. Mapping feature allows you to get a bird's-eye view of your entire facility and monitor assets and other parameters in real time. Powerful Analytics enables our customers to draw valuable insights about assets and COIN sensor data.

COIN

A Proprietary mesh network of Sensors for end-to-end IoT solutions

TECHNICAL SPECIFICATIONS

Physical

Dimensions	Diameter: 39.2 mm, Height 14 mm
Weigh	20 gms
Mounting	Adhesive 3M Tape

Accelerometer and Gyroscope

Acceleration range	$\pm 2/\pm 4/\pm 8/\pm 16$ g
Angular rate range	$\pm 125/\pm 250/\pm 500/\pm 1000/\pm 2000$ dps

All our products are FCC, CE, TELEC and ROHS certified.

IP 68 rated casings for all versions of COINs.

Environment test certificates for heat cycle, high and low temperatures, moisture resistance, continuous vibration and impact

Power

Battery Life for CR 2477 Lithium 3V	3 Months for 24 Values / day
Battery (Condition Monitoring)	6 Months for 12 Values / day
	12 Months for 6 Values /day

Connectivity

Processor	48 MHz ARM Cortex M3
Flash Size	128 KB
RAM Size	28 KB
External Memory	512 KB
Antenna	Frequency 2.4 – 2.5 GHz, 2.0 dBi
Wireless Protocol	Proprietary mesh on top of Bluetooth 5
Data Transfer Rate	1 Mbps

	96 Months for 24 Values / day
Battery Life D type battery with 16,000 mAh (Condition Monitoring)x	48 Months for 48 Values / day or 1 value per 30 minutes.
	24 Months for 96 Values / day or 1 value per 15 minutes.

For asset/people tracking, battery will last for 6 months.

Configuration

Security	AES-128 Security Module
Normal Operations	1.8V to 3.6V
User Interface	SenseGiz Dashboard

Temperature and Humidity

Operating range	0 to 100% RH
Operating range	-40 to +125 °C
Temperature accuracy	± 0.5 °C
Humidity accuracy	$\pm 5\%$ RH, 0–90% RH
Operating voltage	(1.9 to 3.6 V)

COIN Variants



COIN with CR 2477 Battery

Dimensions: Diameter: 39.2 mm, Height 14 mm.

Suitable for Condition Monitoring, Predictive Maintenance and Perimeter Security use case where size of the asset or space to install the device is small. Comes with Silicon Sleeve for providing IP68 rating.



COIN with CR 2477 Battery with flanged casing

More suitable in case of mounting the COIN with screws.

Other applications and parameters remains the same as regular COIN with CR 2477 battery.



COIN PRO

Dimensions: Length 80mm, Width 60 mm, Height 45.5 mm.

Suitable for Condition Monitoring, Predictive Maintenance and Perimeter Security use cases where size of the asset or space to install the device is large.

Comes with a bigger battery which is highly recommended for Asset tracking and People tracking use cases.

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