COIN 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.

Technical Specifications

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

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	Proprietary mesh on top of
Protocol	Bluetooth 5
Data Transfer Rate	1 Mbps

Configuration

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

Temperature and Humidity

Temperature Operating range	-55 to +125 °C
Humidity Operating range	0 to 100% RH
Temperature accuracy	±0.5 °C
Humidity accuracy	± 5% RH
Operating voltage	(1.9 to 3.6 V)

Accelerometer and Gyroscope

Acceleration range	±2/±4/±8/±16 g
Angular rate range	±125/±250/±500/±1000/±2000 dps
Output data rate :	max up to 26.67 kHz
Bandwidth :	6.3 kHz
Sensitivity :	0.061mg to 0.488mg

- All our products are FCC, CE, TELEC and ROHS certified.
- IP 67 rated casings for all versions of COINs.
- Environment test certificates for heat cycle, high and low temperatures, moisture resistance, continuous vibration and impact (Reference doc: IEC 60068-2-1:2007, IEC 60068-2-2:2007, IEC 60068-2-14:2009, IEC 60068-2-6: 2007, IEC 60068-2-27: 2008,

COIN-2477

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, Neodymium Magnet, Cable tie and Screws

Power	
Battery Life for CR 2477 Lithium 3V Battery	3 Months for 24 Values / day 6 Months for 12 Values / day 12 Months for 6 Values /day

Device Images

Coin-2477

Coin-2477 with flange: More suitable in case of mounting the COIN with screws.

Mounting options

With N52 Neodymium Magnet

Use Screws or Cable ties on flange

With 3M VHB Adhesive Tape

COIN-PRO VERSION

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

TECHNICAL SPECIFICATIONS

Physical	
Dimensions	80mm x 60mm x 45.5mm
Weigh	200 gms
Mounting	Adhesive 3M Tape, Neodymium Magnet, Cable tie and Screws

Power

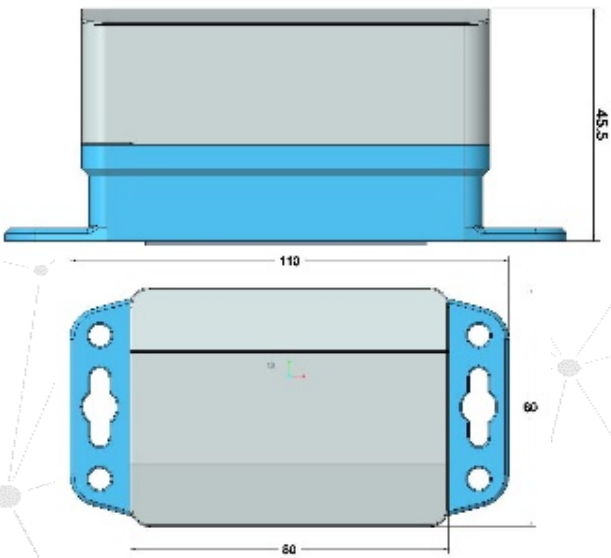
Battery Life for D type battery (ER34615) with 19,000 mAh

96 Months for 24 Values / day
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.

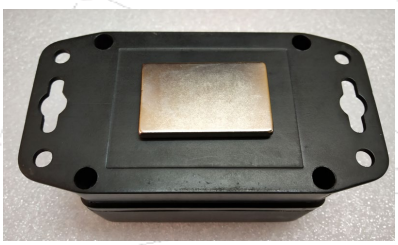
Device Image:

Dimensions



Mounting options:

With 3M VHB Adhesive Tape



With N52 Neodymium Magnet

Use Screws or Cable ties on flange

COIN-PRO with PROBE

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

TECHNICAL SPECIFICATIONS

Physical	
Dimensions	80mm x 60mm x 45.5mm
Weigh	200 gms
Mounting	Adhesive 3M Tape, Neodymium Magnet, Cable tie and Screws

Power

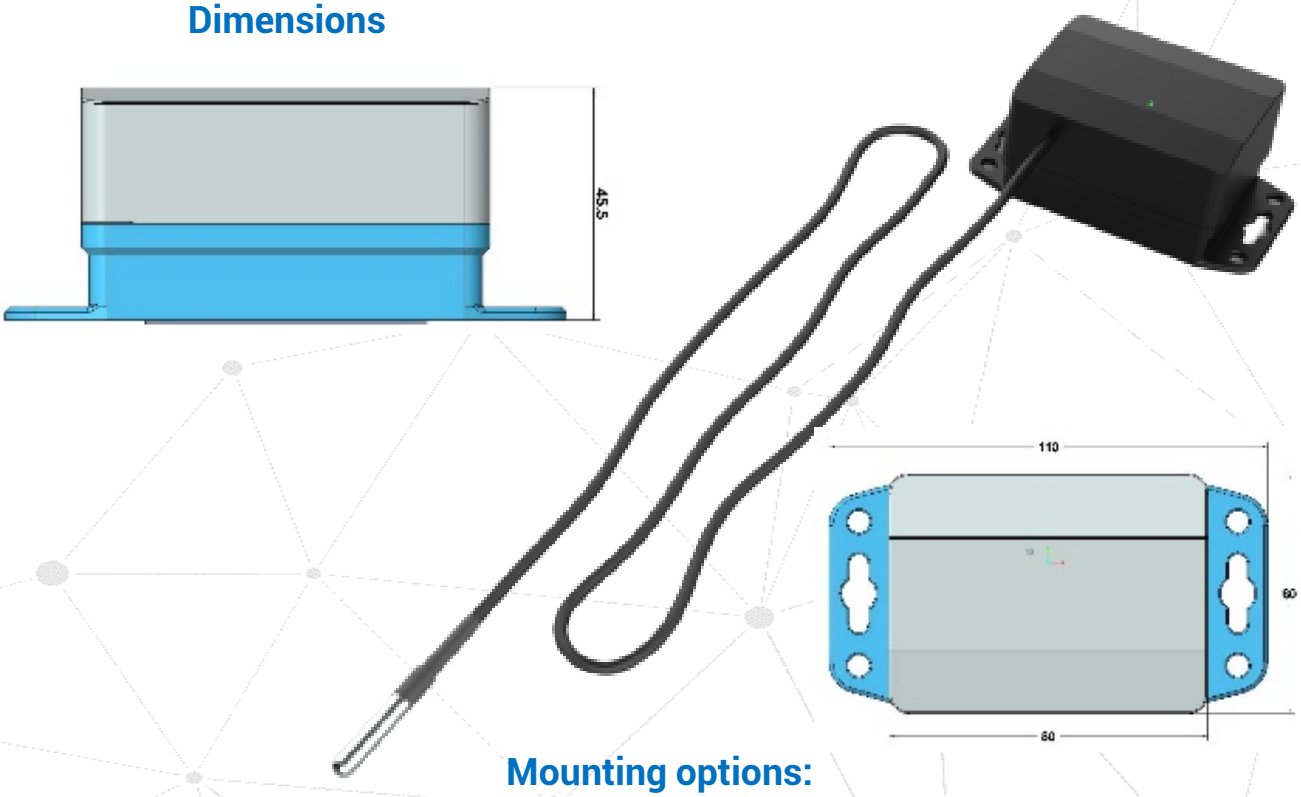
Battery Life for D type battery (ER34615) with 19,000 mAh

96 Months for 24 Values / day
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 Condition Monitoring, battery will last for 6 months.

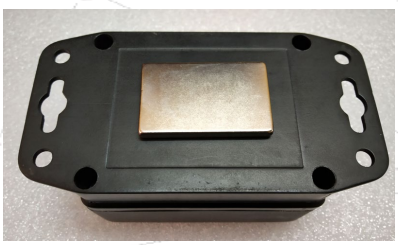
Device Image:

Dimensions



Mounting options:

With 3M VHB Adhesive Tape



With N52 Neodymium Magnet

Use Screws or Cable ties on flange

COIN NEO (AA) VERSION

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

TECHNICAL SPECIFICATIONS

Physical	
Dimensions	108mm x 76.8mm x 32mm
Weigh	180 gms
Mounting	Adhesive 3M Tape, Neodymium Magnet, Cable tie and Screws

Power

Battery Life for AA(4) type battery (LR6) with 4,000 mAh

12 Months for 24 Values / day
24 Months for 12 Values / day
48 Months for 6 Values /day

For asset/people tracking, battery will last for 3 months.

Device Image:

Dimensions

Mounting options:

With 3M VHB Adhesive Tape

Use Screws or Cable ties on flange

With N52 Neodymium Magnet

COIN INFINITY (WIRED VERSION)

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

TECHNICAL SPECIFICATIONS

Physical

Dimensions	56mm x 52mm x 32mm
Weigh	75 gms
Mounting	Adhesive 3M Tape, Neodymium Magnet, Cable tie and Screws

Power

Plug-in: Mating Adaptor: 12V, Pin ID 2.5mm & Pin OD 5.5mm (to be arranged by customer)

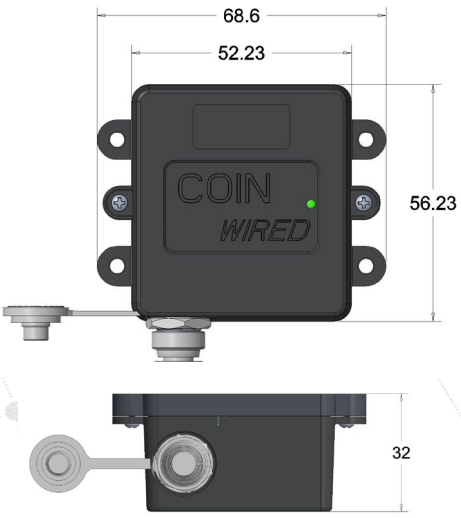
Also available with option of temporary backup,
useful incase of sudden power failure for shorter time/power switching

Built to be used with continuous power supply and is highly recommended for Asset/People tracking & Temperature monitoring use cases.

Communication is wireless

Device Image:

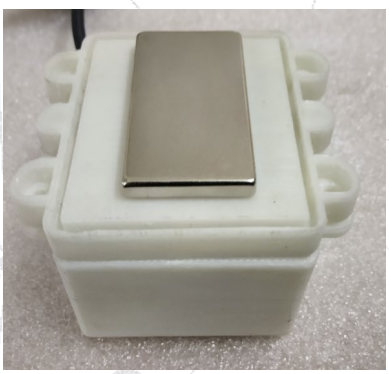
Dimensions



Mounting options:

With 3M VHB Adhesive Tape

Use Screws or Cable ties on flange



With N52 Neodymium Magnet

COIN-VARIANTS

List for Quick Reference

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.
Temperature range: -40 degree Celsius to +70 degree Celsius

COIN NEO

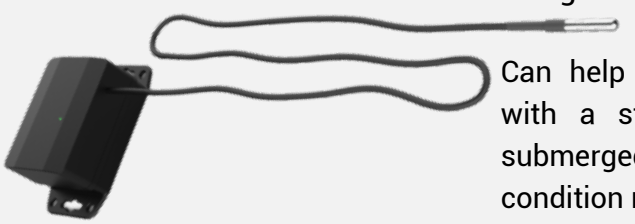
Dimensions: Length 108mm, Width 76.8 mm, Height 32 mm.
Suitable for Condition Monitoring, Predictive Maintenance and Perimeter Security use cases where size of the asset or space to install the device is large.
Comes with a 4xAA batteries which are easily available commercially
Temperature range: -40 degree Celsius to +60 degree Celsius

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.
Temperature range: -40 degree Celsius to +85 degree Celsius

COIN PRO (with Probe)

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



Can help detect accurate surface temperature. Comes with a standard 1 meter cable. The probe can be submerged in liquid and is highly recommended for condition monitoring use cases
Temperature Range: -55 to +125 degree Celsius

COIN INFINITY (Wired Version)

Dimensions: Length 56mm, Width 52 mm, Height 32 mm.
Mating Adaptor: 12V, Pin ID 2.5mm & Pin OD 5.5mm (to be arranged by the customer). Built to be used with wired power supply (uninterrupted) which is highly recommended for Asset/People tracking & Temperature monitoring use cases. Also comes with a temporary backup, useful in case of sudden power failure for shorter time/power switching
Temperature range: -40 degree Celsius to +85 degree Celsius