

**EXCLUSIVE DISTRIBUTOR**  
SINGAPORE | MALAYSIA | PHILIPPINES



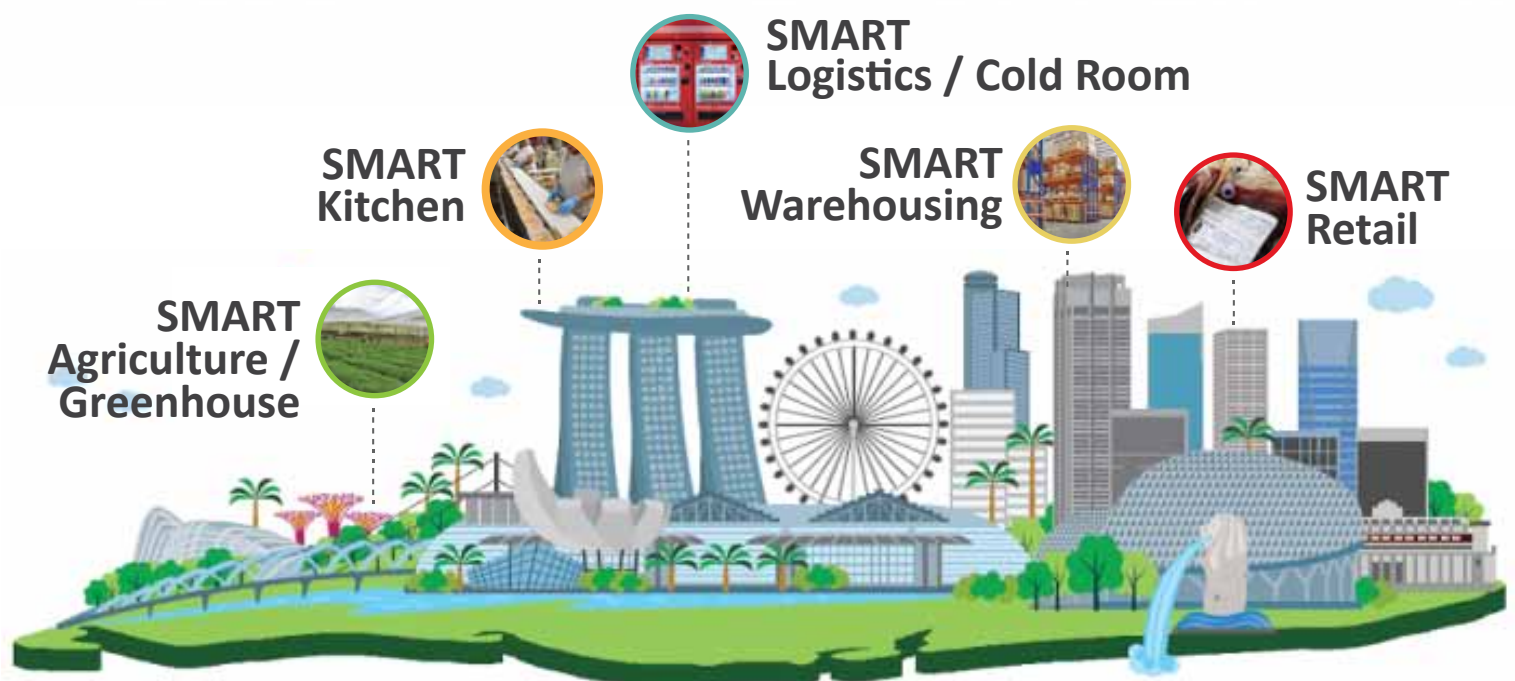
# Building a **SMART NATION**



using Sigfox network coverage

## **SMART MONITORING SOLUTIONS (SMS)**

- Easy to set-up
- Affordable Solutions
- Prevent falsification of data
- 24/7 monitoring and notification
- Paperless recording with no errors
- Improve productivity and efficiency
- Seamless data extraction from server
- Low power consumption & rechargeable
- Data can be used in the cases of litigation



# Internet of Things (IoT) Solutions

**Sigfox** is the world's leading provider of connectivity for the Internet of Things (IoT). Sigfox's unique approach to device-to-cloud communications addresses the three greatest barriers to global IoT adoption: cost, energy consumption, and global scalability. Our Smart Monitoring Solution combines a great sensor system with Sigfox network coverage. It allows its users to conduct environmental monitoring from the comfort of an office to the convenience of a smartphone. We believe that we can provide **IoT solutions of low cost, easy to use and adaptability to any business sizes.**



## Device



**IP 67**  
Protected against dust and low pressure water.



**Plug and Play**  
Only requires plugging in sensor to start using.



**Temperature & Humidity Monitoring**  
Monitor your environment with data samples every 10 minutes.

Runs on Sigfox Protocol

## App



**Push notifications**  
Get notified when a device requires attention.



**Device groups**  
Easier device management.



**Device data**  
See your devices' data on the go.

## Portal



**Alarm Settings**  
Allow users to set up alarm for device.



**Reports**  
Get online reports of device groups and obtain device's data in csv format.



**Historical Records**  
Get device historical data for maintenance and record tracking.



**Multiple languages support**  
English, Spanish, French, and Mandarin Chinese

**Model: SITH-01**

### Housing

Overall dimensions (L x W x H)	68 x 86 x 36 mm
Enclosure and IP rating	IP 67
Mounting	Wall
Working Range	- 20°C to 60°C

### Power Supply

Capacity	Lithium Battery 3.7V, 2200mAh
DC Source	Input DC +5V

### Temperature Sensor

Measuring Range	- 40°C to 125°C
Resolution	0.01°C
Accuracy	+/- 0.3°C

### Humidity Sensor

Range (% RH)	0 to 100% RH
Resolution	1% RH
Accuracy	+/- 3% RH

### Radio Antenna

Fixed Antenna	0 dBi Dipole Antenna with SMA connector
Extendable Antenna	2 dBi Dipole Antenna with 1.5 M cable
Size	58.0 x 12.5 mm (Fixed)   197.0 x 13.0 mm (Extendable)

### Radio Frequency

Radio Protocol	Sigfox
----------------	--------

### RCZ

### Radio Frequency

### Output Power

Sigfox RCZ 4	920 MHz	22 dBm
Sensitivity	-126 dBm (Max)	

### I/O Interface

LED	2 - RED
Power Port	Micro USB (waterproof)
Data Port	Micro USB (waterproof)

### Certifications



Complies with  
IMDA Standards  
DA 108175

# Four Components of Temperature Monitoring

## Data collection

- Sensors monitor temperature, humidity etc.
- Built-in communication device
- Easy-to-install and self-powered



## Communications

- Sigfox connection (LPWA)
- Secure transmission of periodic data and alerts
- Geolocation of the device

## Results & visualisation

- Data analyses
- Web reports
- Smartphone or tablet access

## Data administration

- Connected device and data storage management
- Generation of alarms based on defined rule sets

## Value Proposition

Based on an Employee wage of SGD 15.00/hr,  
spends 1 hour a day on monitoring and recording data in  
a workplace.

Cost Savings per Year  
SGD 15.00 X 22 (days) X 12 (months)  
**= SGD 3,960**



**SENZE INSTRUMENTS PTE LTD**

28F Penjuru Close #01-05 Singapore 609134

**Tel:** +65 6878 0600 | **Fax:** +65 6878 0242 | [sales@senzeinstruments.com](mailto:sales@senzeinstruments.com)

[www.senzeinstruments.com](http://www.senzeinstruments.com)