



METROPOLITAN
Metropolitan Wireless International

IoT Temperature Monitoring

Solution Catalogue

CONTENTS

Cold Chain

- Cold Rooms
- Cold Trucks
- Fridges
- Freezers



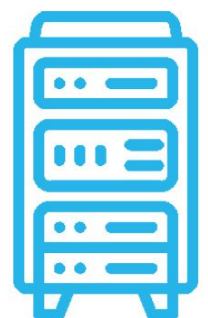
Healthcare

- Hospitals
- Pharmaceuticals
- Drug Fridges

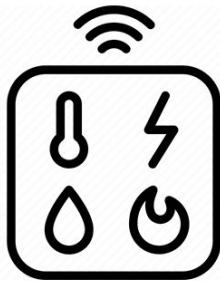


Data Center

- Server Racks
- Ambient Monitoring



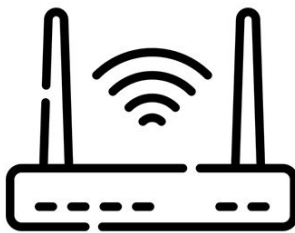
How Does Our Solution Work?



Sensors



Sensors collect data & upload to Gateway



Gateway



Collects Data Uploaded from Sensors



Cloud



Data pushed out to End User Dashboard



End User



Cloud filters out the Data & ready to push out to End User

Cold Chain

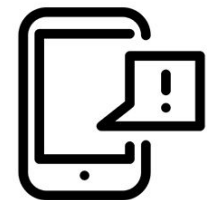
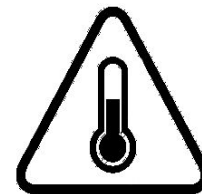
Temperature & Humidity



Our solution has the capability to monitor temperatures as low as -30°C which can be widely used across all your equipments.

- Cold Rooms
- Cold Trucks
- Fridges
- Freezers & more

Our real time Temperature & Humidity monitoring has helped businesses from losing their assets with our Alert system that will notify them if it detects unwanted changes to the operating temperature.



Our Sensors are Food-Graded to ensure no health risk involved in protecting your assets!



Cold Chain

Temperature & Humidity

Solution A Real-Time Monitoring



OBD2 Installed in Fuse Box



Sensor Installed in refrigerated box

Monitor the Temperature & Humidity of your assets in your moving fleet in real time.

Our low power OBD2 that's installed in the truck will be the gateway (SIM) to communicate & record the data coming from the sensors at the back of the vehicle.

This is to ensure your assets are in good condition while it is unsupervised on their routes.



Our OBD2 powers up from the vehicle's battery. This saves cost from needing to constantly change device batteries.



Cold Chain

Temperature & Humidity

Solution B Non Real-Time Monitoring



Gateway On-Site



Sensor Installed in refrigerated box

This solution allows the data to be uploaded at the end of every trips made by your fleets.

A Gateway will be installed on your site instead of the truck. Sensors in the truck will log the Temperature & Humidity throughout its journey.

Once the vehicle is back On-Site, the sensors will be detected by the gateway & uploads all the data recorded during its journey onto the cloud for the end user to see.

Additional Sensors can also be installed to monitor other on-site equipment, allowing you to monitor both your assets at a glance



Temperature & Humidity



Healthcare requires all types of equipment. From Incubators to Cryogenic Tanks, it is crucial to monitor these temperature sensitive contents as they could be Blood Bags, Vaccines, Drugs etc.

Different variations of sensors are used based on the user requirements. Our sensors able to withstand Temperatures from as High as 800°C to as Low as -200°C. Safe to say we got it covered!



*Auditing bodies have
Sensor Calibration
Requirements?*



*Look no further & leave it
to us!*



Temperature & Humidity



This solution could also help businesses that involves storing of their own Server Racks in their sites.

Physical Servers are known to produce heat when its powered up to keep things running. This gives the probability of overheating if not monitored which can cause damage to the server & possible loss of data.

Up to preference, we are able to monitor both Temperature & Humidity of the Server Room or the Physical Server itself.

Server CPUs will approach meltdown stage if the Ambient Temperature rises above 30°C





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