trokzee

TEMPERATURE MONITORING SYSTEM

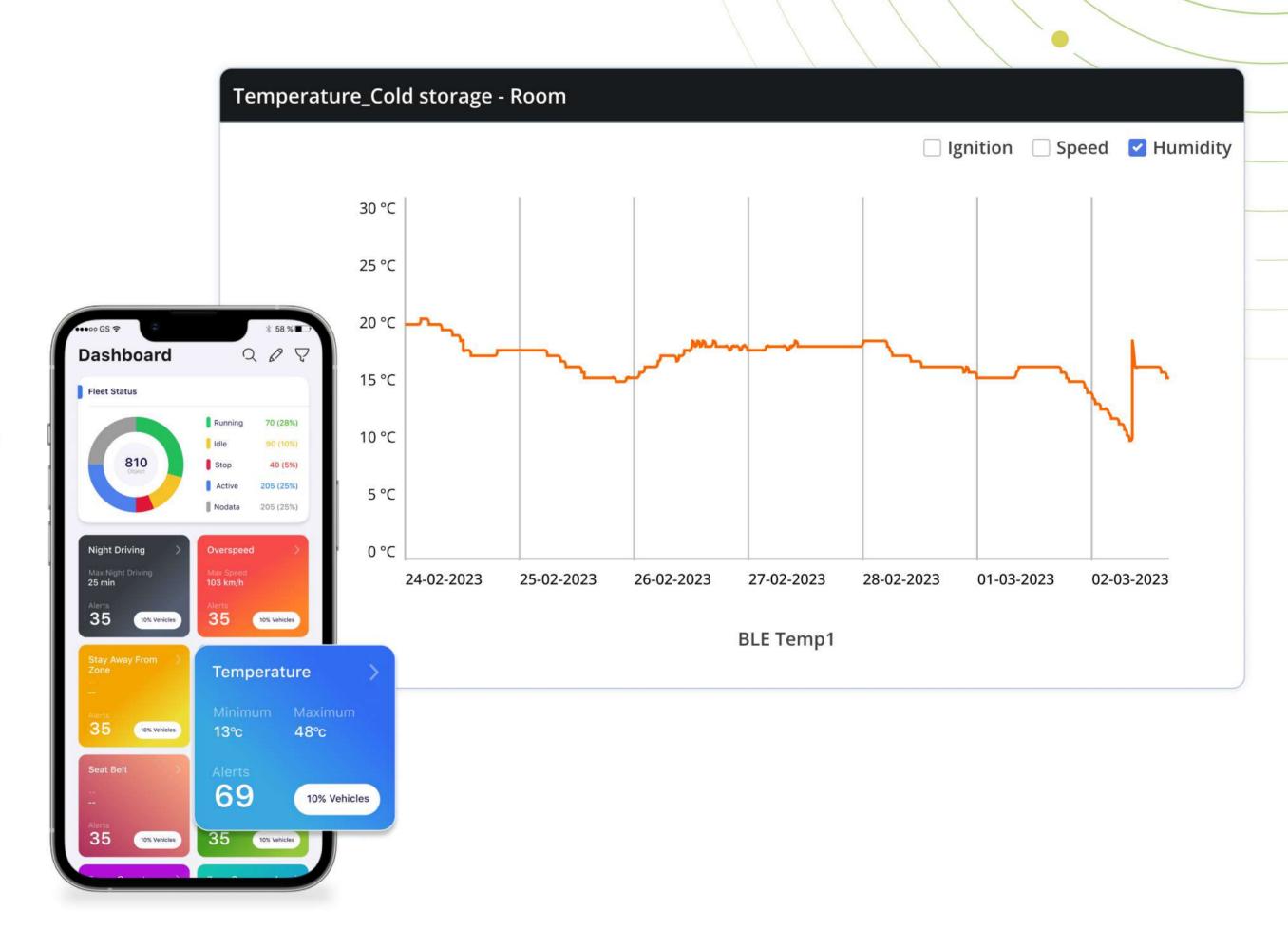


Introduction

A versatile solution used across industries to monitor temperature conditions in real-time. It utilizes sensors that continuously tracks temperature, humidity.

The software sends alerts if any deviation occurs outside the set limits. By using temperature monitoring software, businesses can guarantee the safety and quality of their products. It helps to stay compliant with regulations, and prevent product spoilage.

Moreover, the software provides valuable data that can be used to streamline operations, spot trends and patterns, and drive business growth.



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Real-time Monitoring in Transit

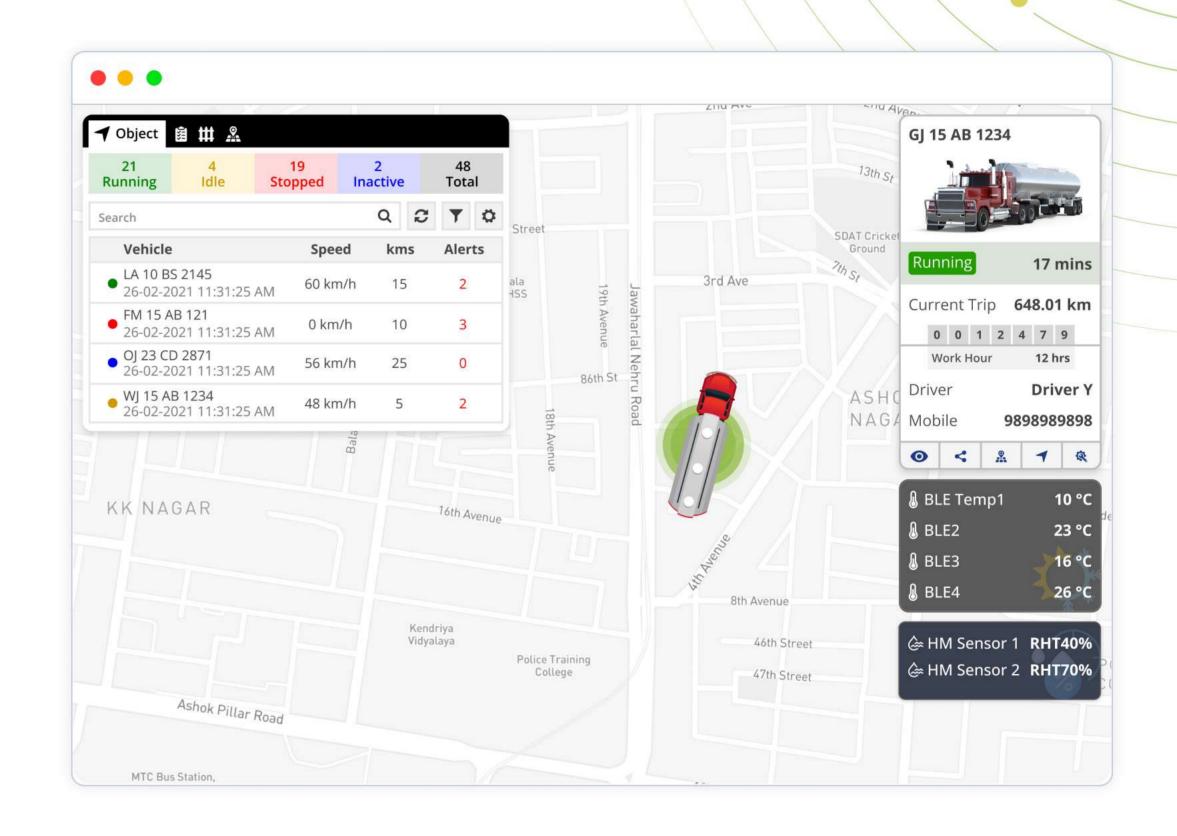
By combining temperature and humidity monitoring, businesses can ensure that their temperature-sensitive products are transported under optimal conditions.

Temperature Monitoring

Real-time monitoring enables fleet managers to quickly respond to temperature deviations. The system generates alerts when the temperature exceeds or falls below a specified range. It allows for greater visibility and control over temperature conditions. It helps businesses to maintain compliance with regulatory requirements and quality standards.

Humidity Monitoring

Humidity is an important factor in many industries, such as food and beverage, pharmaceuticals, etc. Real-time humidity monitoring allows businesses to quickly detect and respond to changes in humidity levels, reducing the risk of product damage or spoilage.



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Reports

Reports provide businesses with a detailed record of temperature conditions over time. These records can be used to identify trends and potential issues before they become critical.

Temperature Status

Get an overview of the temperature conditions in a specific location during a particular time period.

Temperature Summary

Get information such as the temperature range, average temperature, maximum and minimum temperature and humidity, and any deviations that have occurred.

Daily Temperature Summary

These reports are useful for businesses that need to monitor temperature conditions on a daily basis, such as in the transportation of perishable goods.

Temperature Summary per Trip

Provides an overview of the temperature conditions during a specific trip or transportation of goods.

And many more...

Tempe	eratur	e Status														
Obj	ect		Locatio	on	ı	Port	Tempe	rature V	alue	Last	Upda	ited Time				
GJ 15 A	A 9022	Gir	affe Hill	Drive	Te	emp 1		40		04	-05-20	21 01:24				
MH 02 F	RR 5689	Kénitr	a, Moro	occo (NW)	BLE	Temp 1		35		09	-05-20	21 03:46				
KA 10 F	Temp	erature :	Summ	ary		i i										
GJ 28 H DL 12 I	Ol	oject		Location		Po	rt	A	=		Mii		Max.			
GA 01								Tempe		e 10		rature	Tempera	ture		
KL 15 (AA 9022		iraffe Hill Dr		Tem		2			21		24			
DL 06 N	94.00 AC 100	RR 5689	Kéni	tra, Morocco	o (NW)	BLE Te	mp 1	1	2		9		15			
GJ 15 /	KA 10	Temper	ature	Daily Sum	ımary											
GJ 15 (DL 12	Objec	.+	Port				Date		Temperature			Humidit		(%RH)	
	GA 0	Objec		Temperat	ure	Humidity		ate	Avei	rage	Min	Max	Averag	ge M	in Max	
	KL 15	GJ 15 AA	9022	Temperat	ture	-	04-0	5-2021	2	2	21	24	0.0	0	.0 0.0	
	DL 06	MH 02 RR	5689	Temperat	ture		09-0	5-2021	1	2	9	15	0.0	0	0.0	
	GJ 15	KA 10 PO	Tem	perature [·]	Trip S	ummary										
	GJ 15	GJ 28 HH	29627										Temperature			
		DL 12 DD	C	bject	D	river	IMEI No			Distance		Average		Max	Alert(s)	No of Trip
		GA 01 LL KL 15 CN	GI 15	AA 9022	Ros	e Bush	354017	71139162	39	1902.4	19	22	21	24	2	1
		DL 06 MN		2 RR 5689		y Scope		32966263		865.8	3000	12	9	15	5	2
		GJ 15 AB		PO 3482	Penr	ny Black	357073	32937835	57	797.3	4	15	13	18	1	1
		GJ 15 CN	GJ 28	HH 1122	Pol	ly Pipe	357073	32901770	19	760.2	6	18	15	21	1	1
				2 DD 5553	Carm	en Sayid	357073	32900184	60	738.2	5	20	15	25	7	3
			GA 0	1 LL 2020	Wile	y Waites	868003	30336599	83	724.2	1	10	7	12	10	4
			KL 15	CN 2002	Bess	Twishes	454777	75794130	83	712.8	9	22	22	22	3	1
			DL 06	MN 8021	Mar	k Ateer	862007	71380030	31	642.7	6	13	4	17	4	2
			GJ 15	AB 1234	Aid	a Bugg	451241	19846084	26	639.9	8	18	16	22	6	2
			GJ 15	CN 6800	Ter	i Dactyl	865506	53084425	24	636.3	7	19	16	25	8	3

4

Alerts

Stay informed with instant alert notifications about any fluctuations in temperature and take action before product spoilage occurs. Alerts can be set up to trigger notifications via SMS, email, or web application.

Temperature fluctuation alerts

These alerts are triggered when the temperature of the monitored environment exceeds or falls below the specified temperature range.

Humidity fluctuation alerts

These alerts are triggered when there are sudden and significant fluctuations in humidity levels beyond the desired range.

Battery life alerts

These alerts are triggered when the battery level of the monitoring system is low. It indicates that the system may soon be unable to transmit data.



Overcoming Challenges in Temperature Monitoring for Pharma Logistics

Challenges

- Limited visibility into temperature conditions inside transport vehicles during transportation.
- Compliance with strict regulatory guidelines for maintaining temperature range.
- Human error in handling, storage, or transportation leading to temperature excursions and compromised product quality and safety.

Solution

- Realtime temperature monitoring and data recording features for regulatory compliance.
- Automated alerting system to notify logistics team of temperature deviations.
- Data analysis for optimizing transport processes and reducing human error.

Results

- Improved product quality and safety through timely identification and correction of temperature fluctuations.
- Compliance with regulatory requirements and reduced risk of penalties.
- Enhanced reputation and market position in the pharmaceutical industry.

Sensor	Temperature	
BLE 1	15 °C	45%RHT
BLE 2	28 °C	58%RHT
BLE 3	14 °C	41%RHT
BLE 4	12 °C	52%RHT





High Temperature : 28°C

Sensor : BLE 2 Vehicle : UT250 Reefer Time : 10-05-2023 01:24

Ensures Freshness and Compliance in Dairy Product Transportation

Challenges

- Dairy products are sensitive to temperature fluctuations from weather, handling, and transportation.
- Quality and freshness are critical, and deviations can harm taste, texture, and shelf-life.
- Complying with strict FDA, USDA, and other guidelines is necessary.

Solution

- Installed temperature sensors in refrigerated trucks for continuous monitoring and real-time transmission to software.
- Software analyzes data and alerts fleet managers of deviations.
- Data helps optimize delivery processes and improve efficiency.

Results

- Real-time monitoring and automated alerts reduce the risk of spoilage.
- Compliance with regulatory guidelines through temperature data recording and reporting.
- Improved product quality and safety increase customer satisfaction and loyalty.



Ensure Quality and Safety of Bakery Products during Transportation

Challenges

- Maintaining quality and safety of bakery products during transportation due to temperature fluctuations
- Meeting regulatory requirements for temperature control in bakery product distribution
- Risk of human error and mishandling during transportation
- Limited visibility into temperature conditions during distribution

Solution

- Real-time temperature monitoring with sensors and software
- Real-time alerts if there is any deviation from the desired temperature range.
- Centralized dashboard and real-time analytics for issue identification
- Alerts for other factors such as door opening/closing, power outages, and refrigeration system failures.

Results

- Increased temperature control visibility during transportation
- Faster response times to temperature excursions to maintain product quality and safety
- Improved compliance with food safety regulations





Humidity Alert: 75%

Sensor: BT 1

Vehicle: BT310 Reefer Time: 09-05-2023 02:29 Our software is designed to be **flexible**, **scalable**, **and customizable**. We understand that every business is unique, and we work closely with our customers to ensure that our solutions are tailored to meet their specific needs.

Contact us today to learn more about how our software can benefit your business. info@uffizio.com

Thank you!