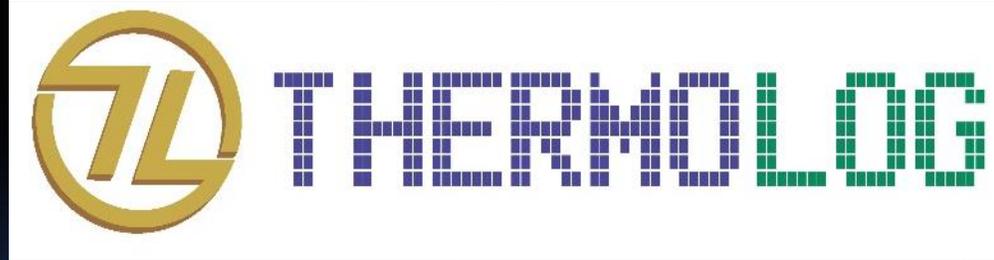


# INTERNET OF THINGS (IOT) BASED DATALOGGERS



Geolab1.AX

WWW.GEOLAB1.COM

Information Transfer

Subsystem Organization

Nanomolecular Assembly

Technology Level Increase

Technological Singularity

## An Advanced Technology in Real Time Datalogging Solution



### A PRODUCT OF THERMOLOG

Visua<sup>2</sup>

©2014 API, ENVIRONMENTAL ENGINEERING

ENGINEERED BY JOSEPH SORESENSEN

CONCEPT INSPIRED BY JENS KARLSSON

# INDUSTRIES WE SERVE

- ✓ HOTELS , RESTAURANTS AND CATERING COMPANIES
- ✓ SUPERMARKETS AND HYPER MARKETS
- ✓ POULTRY FARMS AND Dairy FARMS
- ✓ MEAT PROCESSING , FISH PROCESSING AND FOOD PROCESSING COMPANIES.
- ✓ FOOD MANUFACTURING AND STORAGE WAREHOUSES.
- ✓ HOSPITALS, CLINIC AND PHARMACEUTICALS INDUSTRIES

# Features of IoT Dataloggers

- ✓ Cloud Based Temperature Data logger.
- ✓ comes with up to 2 Year of battery Life.
- ✓ Temperature Range is from -80° C to +125° C
- ✓ Advanced and Simple Browser Based User Interface.
- ✓ LoRa technology

# Benefits of Installing Food Safety Temperature Monitoring System

- ✓ HACCP compliant
- ✓ Prevent the food poisoning
- ✓ Reduce Food Wastage
- ✓ Reduce your Manpower cost
- ✓ Accurate temperature readings and controls
- ✓ Alerts as SMS and Emails to ensure someone acts on the deviations
- ✓ Trend analysis report will show the performance of the Chillers and Freezers - so focus only on the required area.

# Internet of things (IoT)

## TEMPERATURE AND HUMIDITY DATALOGGERS



TEMPERATURE & HUMIDITY SENSOR



# Key Features of LoRa based IoT Technology:



- **Long Range:** A single Datalogger unit using LoRa Technology enables to connect to sensors up to 5 km line of sight
- **Low Power:** The Lora WAN protocol was developed specifically for low power and enables unprecedented battery lifetime of up to 2 years depending on the application.
- **Low Cost:** Lora Technology reduces up front infrastructure investments and operating costs, as well as end-node sensor costs.

# Internet of Things (IoT) Networks



# Our IoT system



# IoT SOFTWARE

## An Internet of Things Based Cloud Server Software

# Easy to use

# All Platform Supported

# User Friendly

# All Browser Supported

# Centralized Server

# Cloud Based Software

# Access From Anywhere in the world

# DASHBOARD

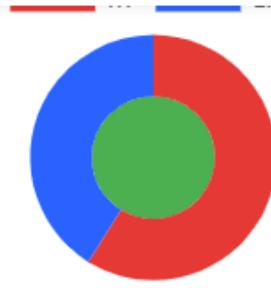
**106**  
Total Sensors



**87**  
Active Sensor



**12**  
No Comm.



## Humidity Sensor

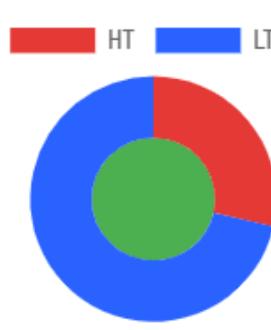
**74**  
Total Sensors



**69**  
Active Sensor



**5**  
No Comm.



## NOTIFICATIONS

TOTAL

7

CORRECTED

5

UNSOLVED

2



Admin

2



Manager

3



Supervisor

6

## Battery Health



# DIGITAL VIEW

 **RAJ Tech**

 Anand Kanagaraj  
● Manager

**MAIN NAVIGATION**

-  Dashboard
-  Group
-  Users <
-  Sensors 188
-  Notification <

## ☰ Devices Details

**28.1 °C**  
Range: 25 °C - 30 °C  
10-09-2021 11:23:22

**28.1 °C**  
Range: 25 °C - 30 °C  
10-09-2021 11:23:22

**28.1 °C**  
Range: 25 °C - 30 °C  
10-09-2021 11:23:22

No Data  
No Data  
No Data

**Device Name 9**  
**28.1 °C**  
Range: 25 °C - 30 °C  
10-09-2021 11:23:22

**Device Name 10**  
**20.7 °C**  
Range: 25 °C - 30 °C  
10-09-2021 11:23:22

**Device Name 11**  
**28.1 °C**  
Range: 25 °C - 30 °C  
10-09-2021 11:23:22

# ANALOG VIEW



**MAIN NAVIGATION**

- Dashboard
- Group
- Users
- Sensors 188
- Notification
- Reports

**COMPANY**

**Device Name 1**



**28.2**

Range: 25 - 30

10-09-2021 11:23:22

**Device Name 2**



**28.2**

Range: 25 - 30

10-09-2021 11:23:22

**Device Name 3**



**32.2**

Range: 25 - 30

10-09-2021 11:23:22

**Device Name 4**



**20.9**

Range: 25 - 30

10-09-2021 11:23:22

**Device Name 5**



**28.2**

Range: 25 - 30

10-09-2021 11:23:22

**Device Name 6**



**28.2**

Range: 25 - 30

10-09-2021 11:23:22

**Device Name 7**



**28.2**

Range: 25 - 30

10-09-2021 11:23:22

**Device Name 8**

**No Data**

No Data  
Activate Windows  
Go to Settings to activate Windows

**No Data**

1 D

1 W

1 M

2 M

6 M

# DATA VIEW

○ Temperature ○ Humidity



## 28.2 °C

10-09-2021 11:23:22

### Battery Health

92%

### Notifications

Alert	Status	Time
Temperature	ACK	10/12/2021 11:32:08
Temperature	ACK	10/12/2021 12:02:11
Temperature	NOT ACK	10/12/2021 12:32:08

### Device Readings

Temp	Humidity	Time
27.9 °C	ACK	10/12/2021 11:32:08
27.5 °C	ACK	10/12/2021 12:02:11
27.2 °C	NOT ACK	10/12/2021 12:32:08

Daily Report

Daily Summary

Monthly Report

Audit Report

AMR\_HOTEL

--Select Device--

d\_sth\_1

d\_sth\_2

d\_sth\_3

Two Hours

17-May-2018



Apply

Showing Report for 2018-05-17

Location	Limits	00.00 to 2.00	2.00 to 4.00	4.00 to 6.00	6.00 to 8.00	8.00 to 10.00	10.00 to 12.00	12.00 to 14.00	14.00 to 16.00	16.00 to 18.00	18.00 to 20.00	20.00 to 22.00	22.00 to 00.00
d_sth_1		no comm	no comm	0.00 °C	-78.00 C	no comm	no comm	no comm	no comm	no comm	no comm	-13.33 °C	-3.76 °C
d_sth_2		no comm	no comm	-50.43 °C	-49.00 C	no comm	no comm	no comm	no comm	no comm	no comm	8.60 °C	6.59 °C
d_sth_3		no comm	no comm	1.86 °C	43.00 C	no comm	no comm	no comm	no comm	no comm	no comm	34.20 °C	-24.54 °C
Pastry Chiller		no comm	no comm	-53.71 °C	-23.00 C	no comm	no comm	no comm	no comm	no comm	no comm	-27.40 °C	-17.97 °C
d_ths_2		no comm	no comm	15.57 °C	-1.00 C	no comm	no comm	no comm	no comm	no comm	no comm	9.40 °C	15.32 °C
d_ths_4		no comm	no comm	19.14 °C	-78.00 C	no comm	no comm	no comm	no comm	no comm	no comm	-23.75 °C	1.00 °C
d_ths_5		no comm	no comm	-25.00 °C	-115.00 C	no comm	no comm	no comm	no comm	no comm	no comm	-11.00 °C	-12.00 °C

Daily Report

Daily Summary

Monthly Report

Audit Report

AMR\_HOTEL

d\_sth\_2

01-May-2018

22-May-2018



Apply

Showing Report between 2018-05-01 & 2018-05-22

		AM				PM				Entire Day			
Date	Limits	Low Reading	High Reading	Avg Reading	Total Sample Taken	Low Reading	High Reading	Avg Reading	Total Sample Taken	Low Reading	High Reading	Avg Reading	Total Sample Taken
2018-05-21		-78.00 °C	86.00 °C	-9.75 °C	8	-98.00 °C	97.00 °C	-3.25 °C	44	-98.00 °C	97.00 °C	-4.25 °C	52

Daily Report

Daily Summary

Monthly Report

Audit Report

AMR\_HOTEL

--Select Device--

d\_sth\_1  
d\_sth\_2  
d\_sth\_3

01-May-2018

23-May-2018



Apply

Showing Report between 2018-05-01 & 2018-05-23

Location	Limits	Low Reading	High Reading	Avg. Reading	Total Samples Taken	Out Of Range Samples	% In range	Chart
d_sth_1		-100.00 °C	97.00 °C	-10.28 °C	243	113	53.50	
d_sth_2		-98.00 °C	100.00 °C	-5.78 °C	241	111	53.94	
d_sth_3		-100.00 °C	100.00 °C	-1.09 °C	241	103	57.26	
Pastry Chiller		-98.00 °C	99.00 °C	-0.94 °C	241	99	58.92	
d_ths_2		-80.00 °C	98.00 °C	10.01 °C	241	76	68.46	
d_ths_4		-97.00 °C	100.00 °C	-3.88 °C	240	121	49.58	
d_ths_5		-120.00 °C	80.00 °C	-18.52 °C	237	119	49.79	

# ALERTS ACKNOWLEDGEMENT

 **RAJ Tech**

 Anand Kanagaraj  
● Manager

**MAIN NAVIGATION**

-  **Dashboard**
-  **Group**
-  **Users** <
-  **Sensors** 188
-  **Notification** <

## ☰ Notifications

 Alert Notifications

Sensor Point	Alert Type	Reading	Status	In-Charge
Freezor 1	LOW TEMPERATURE	7 °C	Not ACK	 L
Freezor 7	HIGH TEMPERATURE	17 °C	In Progress	 A
Freezor 3	LOW TEMPERATURE	6 °C	ACK	 M
Freezor 1	LOW TEMPERATURE	7 °C	ACK	 P

## ACKNOWLEDGE / CLEAR

### Alert Information

Alert Type

LOW TEMPERATURE

Sensor Name

d\_ths\_5

Alert Time

2018-05-21 10:55:16

Alert End Time

Sensor Value

-45

Normal Range

### Standard Actions

Adjusted temperature settings

Notified maintenance

Closed the door

Discarded product

Under maintenance

### Standard Actions

Notified maintenance

ADD NOTE / CORRECTIVE

CLEAR

# EMAIL ALERT NOTIFICATION

Dear User,  
**!!! Sensor Alert Notification !!!**  
**\*\* ESCALATION NOTIFICATION \*\***



Device Name	Chiller003
Time Stamp	12-Mar 09:44
Current Temperature	8.1°C

# COMPLIANCE EMAIL NOTIFICATION

**Dear User,  
!!! Sensor Obedience Notification !!!**

**Device Name**

**Chiller003**

**Time Stamp**

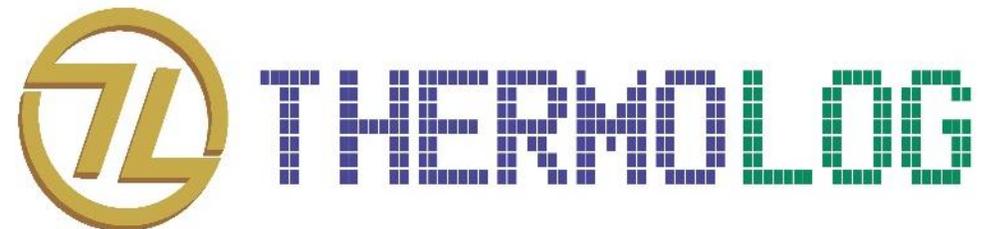
**12-Mar 09:59**

**Current Temperature**

**4.9°C**

# Export Reports Anytime - Anywhere

- ✓ **CUSTOMIZED REPORTS CAN BE GENERATED,**
- ✓ **AUDIT REPORT FOR EVERY 2 HOUR OR 4 HOUR REPORT,**
- ✓ **DAILY REPORT,**
- ✓ **WEEKLY REPORT,**
- ✓ **MONTHLY REPORT,**
- ✓ **6 MONTHS REPORT**



THANK YOU

Geolab1.AX

WWW.GEOLAB1.COM

Information Transfer

Subsystem Organization

Nanomolecular Assembly

Technology Level Increase

Technological Singularity

