NS-T&RH

Temperature & Relative Humidity Monitoring System



Overview

- **NS-T&RH Monitoring** is a wireless, flexible and scalable temperature and relative humidity monitoring solution
- Using NS-T&RH you can monitor room temperature, dry cabinets, fridges, freezers, burn-in chambers, storage rooms, cold rooms, glass displays and much more

Overview

Using of the shelf components we lower your costs (acquisition and maintenance)

- System is using Raspberry PI3 as single board computer
- T&RH sensors are:
 - High Precision capacity sensors
 - Outstanding long-term stability
 - Factory Calibrated
- Sensors can be changed without replacing the whole unit (reuse the Raspberry Pi)



Easy to setup

- Sensors are using your existing Wi-Fi network to send data to the server
- Sensors are configurable and take measurements at time intervals from 1/second to 1/day
- Sensors can be accessed and configured remotely via VNC



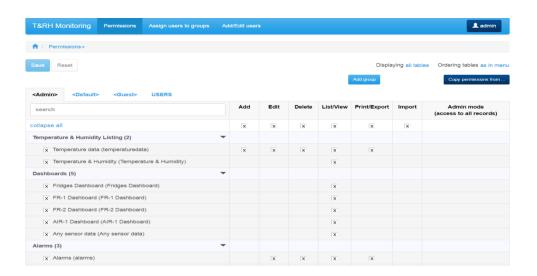
Email and SMS Notifications

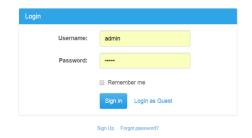
- Sends emails and/or SMS notifications when temperature or relative humidity measurements are out of range
- Easy to configure the list of who needs to be notified
- Everything is done through the user friendly web based interface



Security

- Multiple user levels
- Easy to update and reconfigure
- Configure user rights for each screen and function





Responsive Web Design

- NS-T&RH has been developed using Bootstrap, the most popular HTML, CSS and JS framework for developing responsive, mobile first experience on the web
- Responsive design fits on any screen
- Mobile App gives you great advantage and improves your productivity



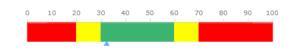
IP: 10.70.20.196 / MEL-RPI-026 / WH-1



Temperature: 20.6

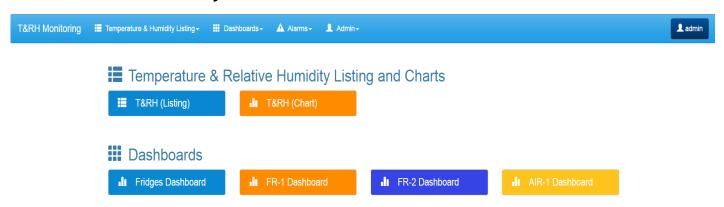
Warehouse (WH-1) RH

Humidity: 32.30



Main Features

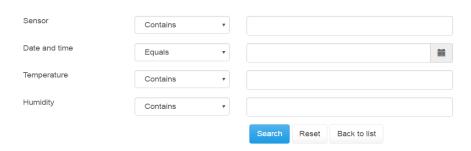
 All features can be accessed from Main Screen that loads after a successful login.

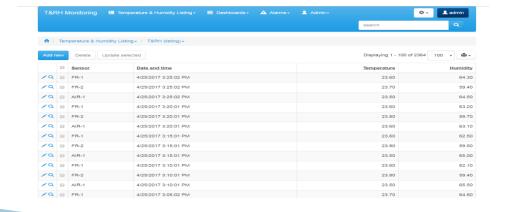


Main Features – Advanced Search

- Easy to search by
 - Sensor
 - Date & Time
 - Temperature
 - Humidity
 - Multiple Search Operators (Contains, Equal, Not Equal, Empty, etc.)

Temperature data - Advanced search

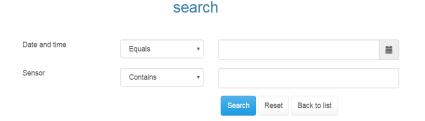


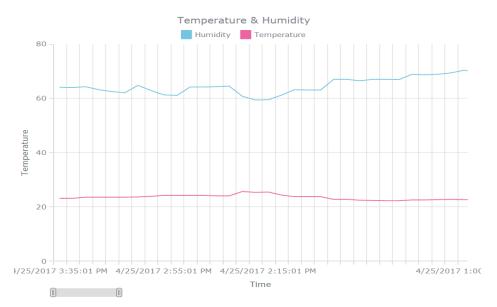


Main Features - Charts

Temperature & Humidity - Advanced

Temperature and Relative Humidity data can be also displayed as a chart.
Information can be filtered based on Sensor Name and Time Stamp of the measurement

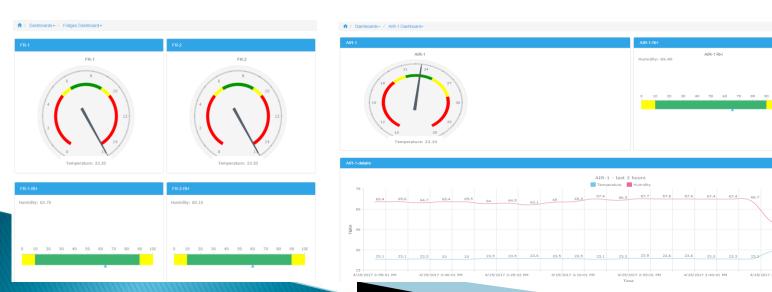




Main Features - Dashboards

- Sensors are grouped in Dashboards based on their location or temperature range
- Dashboards display multiple charts on a single page, making very intuitive the interpretation of the collected measurements

4/25/2017 2:00:01



Main Features - Alarms

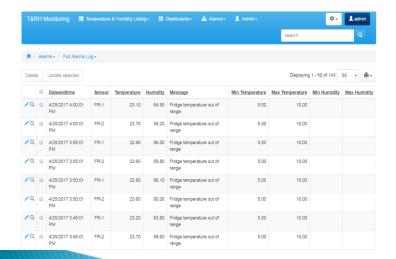
Sensor

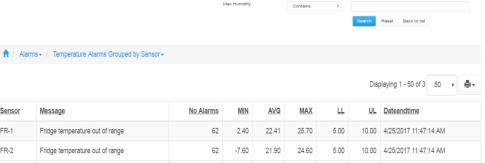
AIR-1

Message

Room temperature out of range

- Fully Searchable Alarms Loq
- Alarms Grouped by Sensors or ordered by Date and Time





30.70

19.00

Contains

Contains

Dateandtime

Temperature

Min Temperature Max Temperature Min Humidit

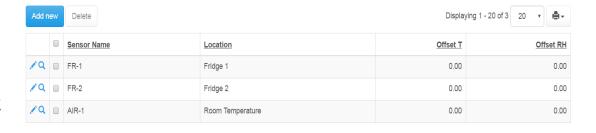
-7.20

Alarms - Advanced search

29 00 4/25/2017 12:52:23 PM

Main Features - Admin

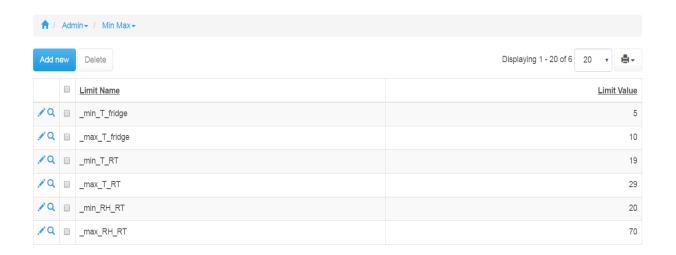
- Add, Edit or Delete:
 - Sensor Name
 - Location
 - Temperature Offset
 - Humidity Offset



Admin functions should be available only for users with higher access levels. These settings are critical for good functionality of the whole system.

Main Features - Admin

 For each sensor group, you can change using the web interface the, lower and upper limits



Main Features - Admin

- New users can be added from Admin Web Page
- Or users can be also created from login page by clicking on Sign Up link



Login		
	Username:	admin
	Password:	••••
		■ Remember me
		Sign in Login as Guest
Sign Up Forgot password?		
	Register	
Username *		
Password *		
e-enter password *		
Email *		
Fullname		
	Register Back	to login page

Thank you!



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