

Nex-G Automation LLP

www.nexgautomation.com

Products and Services

16-04-2023



ABOUT US

- Nex-G Automation LLP is a Mechatronics product design Engineering and manufacturing company which is headquartered in Hubballi, Karnataka, India.
- Nex-G has been supporting customers in Electronic Automations and software solutions with its strong Design, Development & Manufacturing capabilities.
- Nex-G Automation LLP offers solutions right from concept planning, designing & prototyping all the way up to completely managing your small & large volume production.

Data of Incorporation: 02 April 2019

LLP number: [AAO-7508](#)

Web: www.nexgautomation.com

OUR SERVICES

We offers solutions right from concept planning, designing & prototyping solutions all the way up to completely managing your small & large volume production.



Idea to POC



Contract manufacturing



Technical consulting



Testing and Quality Assurance

Core Capability

We work on cutting edge technology for development of electronic devices and embedded systems. We continually study latest IT technologies and their applications to product development focusing on embedded system design based on microcontrollers and related board support packages for various real time operating systems.

1.	Processor Architecture	ARM7, Cortex M0, Cortex M3, MSP430, ATmega328p, ATmega2560, STM32, Nuvton-N76, Node MCU, PIC16F877
2.	Real Time Operating Systems	Ucos, FreeRTOS, Embedded Linux.
3.	Communication Interfaces	UART, I2C, I2S, SPI, SSP, USB, MMC, Ethernet, CAN, ModBus, RS485, ProfiBus.
4.	GUI Interfaces	Alphanumeric display, graphical LCD, LCD, TFT, OLED, HMI
5.	Wireless Technology	WiFi Wroom32, Bluetooth/BLE, ZigBee, GSM/GPRS, GPS, LoRa
6.	IoT & Protocols	HTTP, HTTPS, MQTT, UDP, TCP/IP, WEB SOCKETS
7.	Firmware IDE	Keil4/5, MCU Expresso, Atmega studio, Arduino and MPLAB, Raspberry PI
8.	Android applications	Java, XML, PHP, JSON, SQL
9.	Web Developments	HTML, CSS, JS, PHP, SQL, BOOTSTRAP

Note: Nex-G automation can migrate to any microcontroller/ microprocessor architecture as per customer requirements.

Warehouse Management System

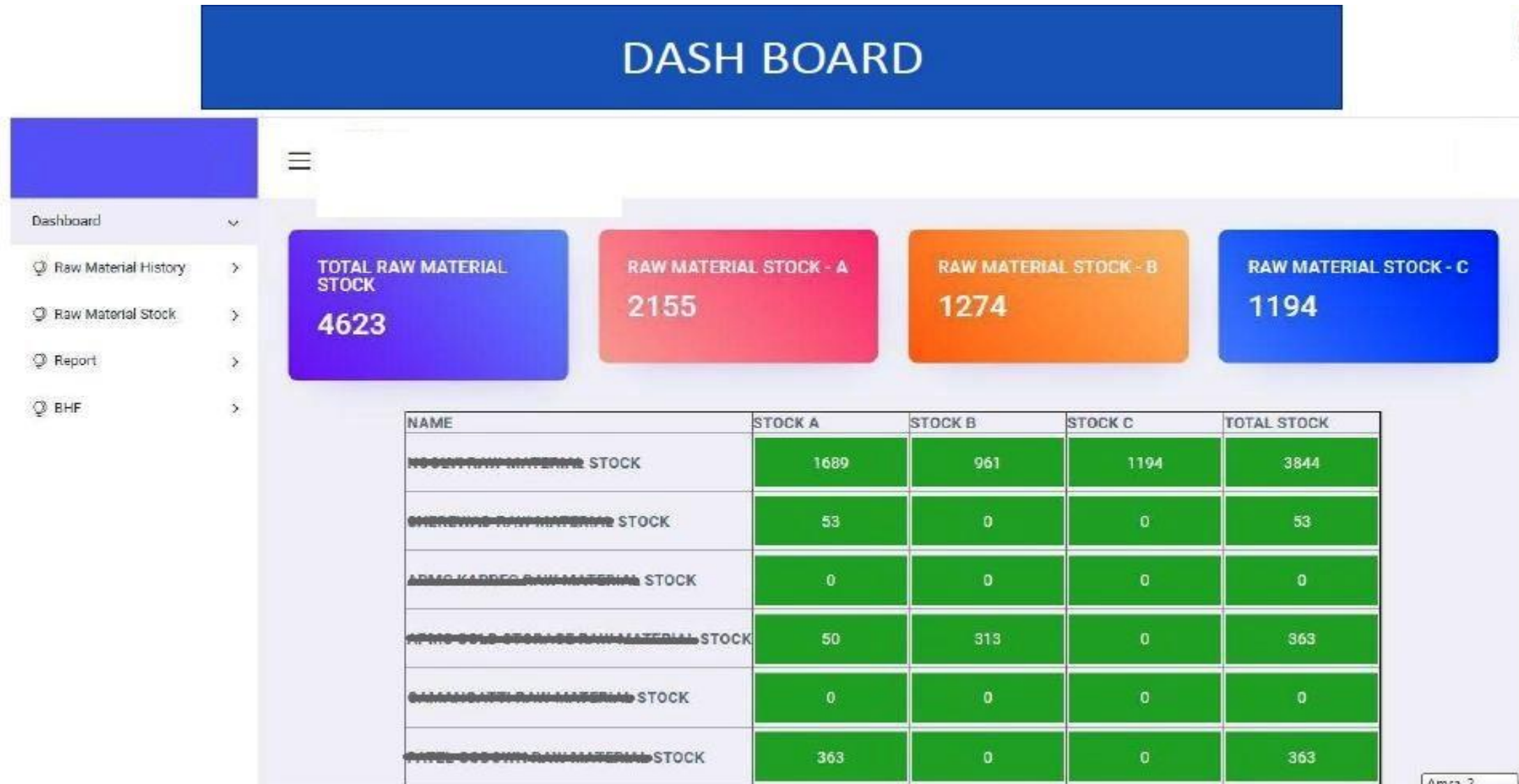
This is the RFID based Warehouse management unit. Each product will be assigned with unique ID. The device captures the production related Details automatically and send to the centralized unit.

Features:

1. Capacitive Touch TFT 7inch Display.
2. Integrated HF RFID tag reader.
3. IoT ENABLED.
4. Image capturer and data logger inside.
5. Automatic Report generator.
6. Supports HTTP & HTTPS servers



Dash Board



Amca 2

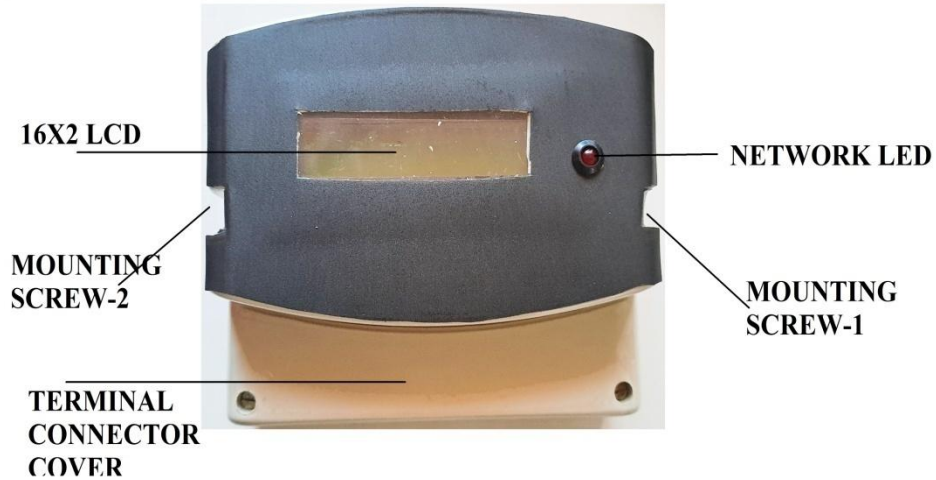
Solar dish tracker

This can be used for solar panels to track the sun position and face the panel toward the sun to harvest more solar energy. We provide the control system which performs this job with high precision. Please contact us for more details.

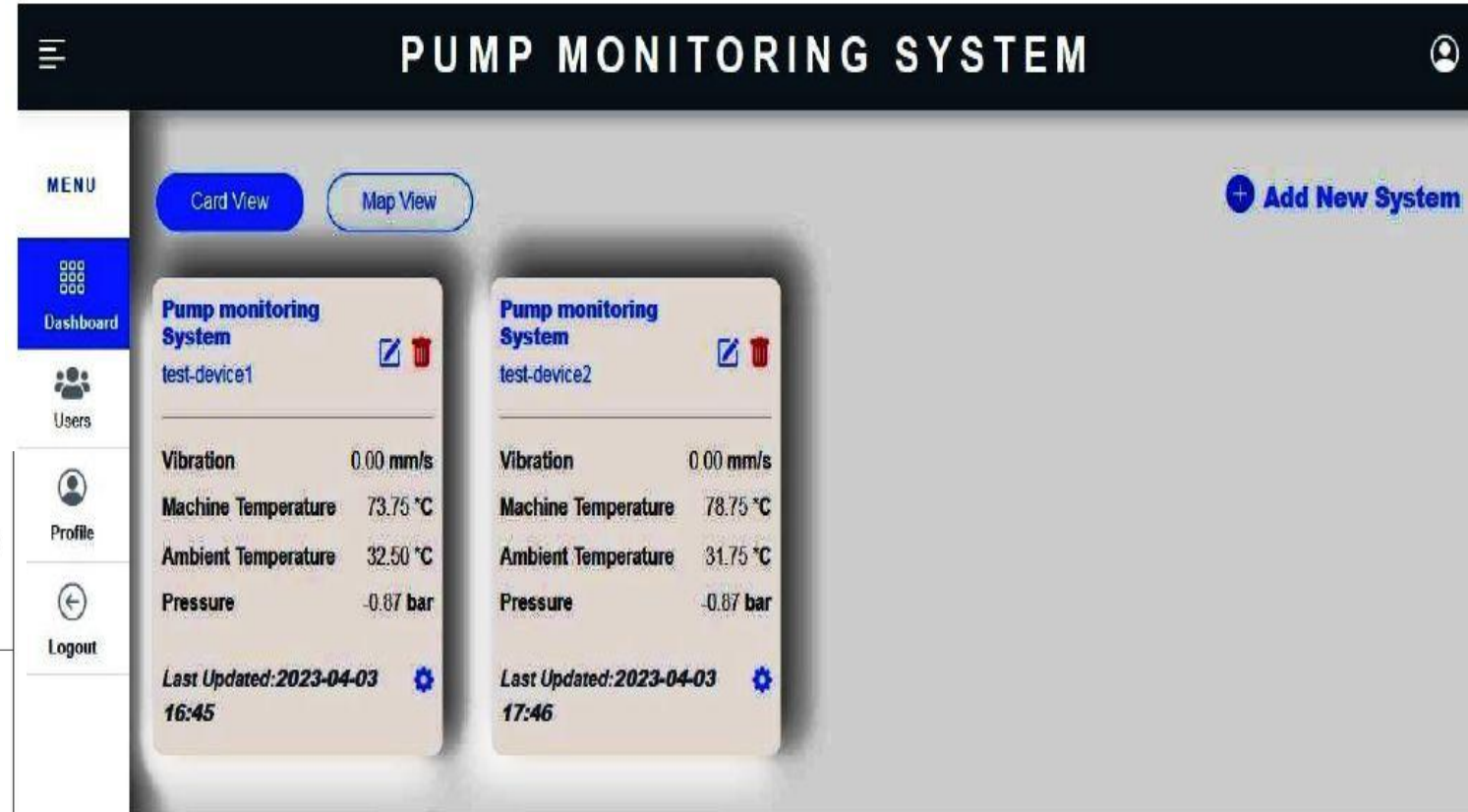
With accuracy of $\pm 5^\circ$



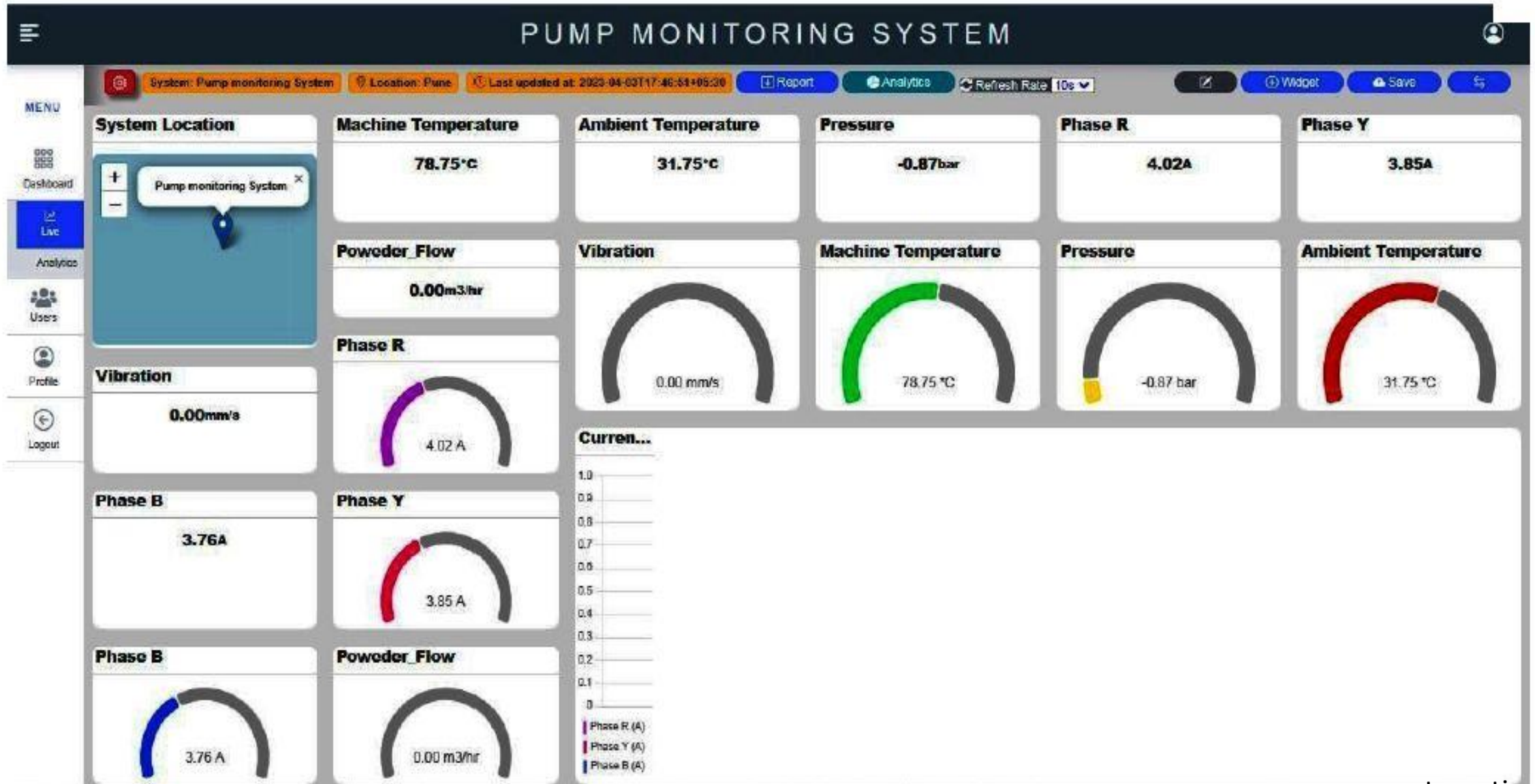
Vacuum Pump Data Logger



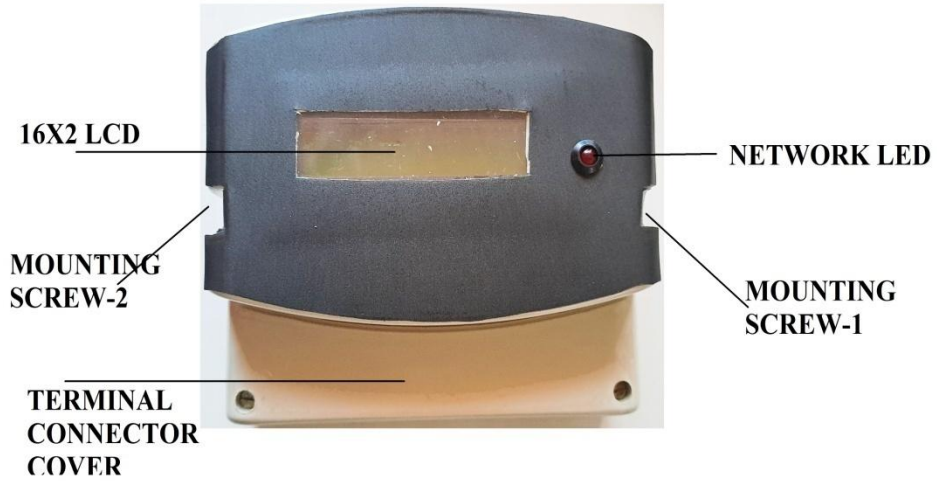
BECKER VACUUM SYSTEM



Vacuum Pump Data Logger



CNC Data Logger



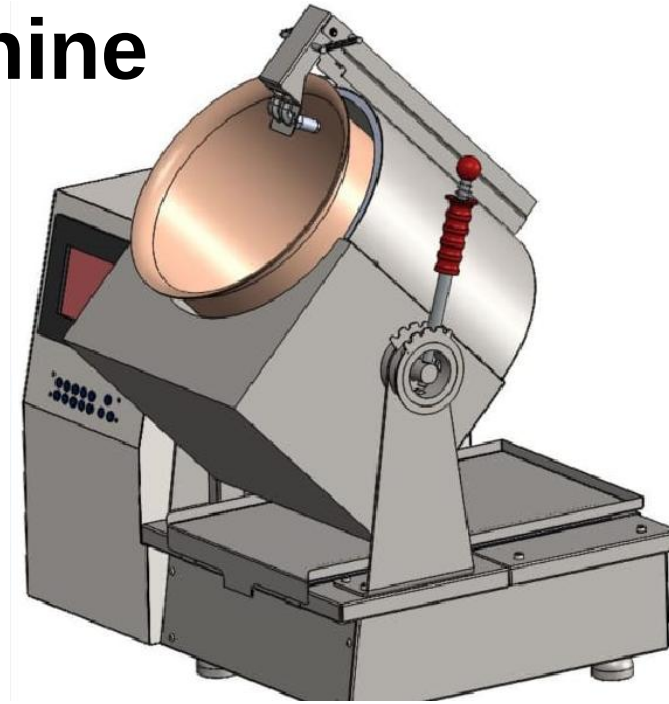
Machine Data Logger Application

Sl no.	Machine Name	Machine Number	Status	Start Time	Start Date	Stop Time	Stop Date	Total Time	Idle Time
1	LMW	01	OFF	13:08:18	2023-03-03	13:21:38	2023-03-03	0:13:20	0
2	LMW	01	OFF	13:11:00	2023-03-03	13:21:22	2023-03-03	0:10:22	0
3	LMW	01	OFF	13:12:32	2023-03-03	13:21:11	2023-03-03	0:8:39	0
4	LMW	01	OFF	13:13:30	2023-03-03	17:09:46	2023-03-03	3:56:16	0
5	LMW	01	OFF	13:22:35	2023-03-03	13:23:06	2023-03-03	0:0:31	0:2:25
6	LMW	01	OFF	13:23:11	2023-03-03	13:24:27	2023-03-03	0:1:16	0:0:5
7	LMW	01	OFF	13:24:42	2023-03-03	13:25:13	2023-03-03	0:0:31	0:0:15
8	LMW	01	OFF	13:25:18	2023-03-03	13:26:35	2023-03-03	0:1:17	0:0:5
9	LMW	01	OFF	13:26:40	2023-03-03	13:27:10	2023-03-03	0:0:30	0:0:5
10	LMW	01	OFF	13:27:16	2023-03-03	13:28:33	2023-03-03	0:1:17	0:0:6
11	LMW						23-03-03	0:0:33	2:43:24

Semi Automatic Cooking Machine

Features

- ✓ Semi automated machine.
- ✓ More than 200 Chinese Recipes integrated.
- ✓ Automatic temperature adjustment.
- ✓ Touch based LCD for user interface.
- ✓ Induction Heating method.



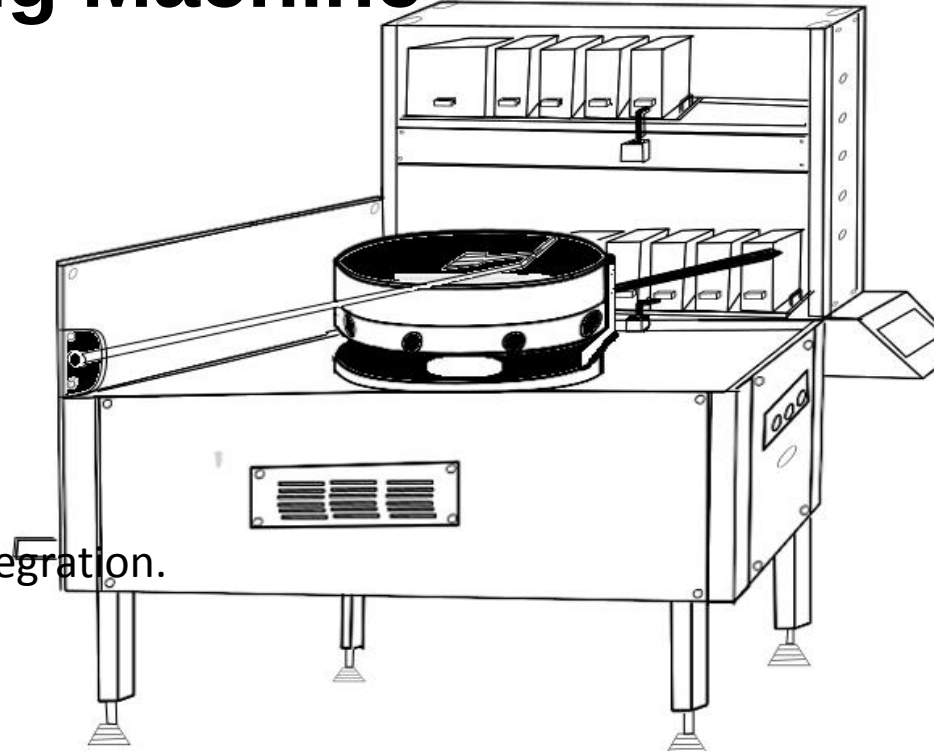
Fully Automatic Cooking Machine

Assistive cook top v1.0

Patent No 202141010182

Features

- ✓ Fully automatic.
- ✓ More than 300 Indian and Chinese Recipes integration.
- ✓ Automatic temperature adjustment.
- ✓ Touch based LCD for user interface.
- ✓ LPG Heating method.
- ✓ Automatic food tossing.
- ✓ Automatic ingredients pouring.



GPS Tracker

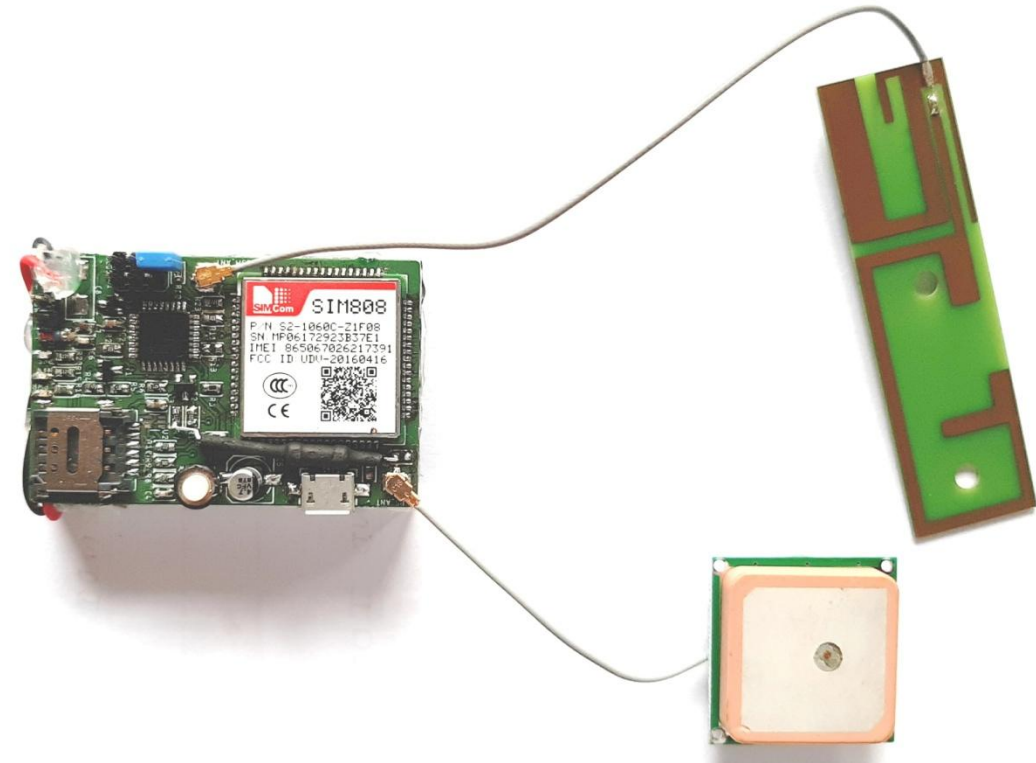
GPS child tracker

Multi-Purpose compact GPS tracker for-

1. Child tracking
2. Vehicles tracking
3. Luggage tracking
4. Pet tracking.

Specification:

1. GSM/GPRS Enabled.
2. Nano-sim slot single.
3. 1500mAh battery back up and on the board charge cor
4. GPS with accuracy +/-5meters.
5. IoT and SMS enabled.
6. Size 3.5 X 4.0 CM



Other Projects

(on going Projects)

➤ **Flasher Light Control Card for Navy Application**



➤ **ALTAS 350.2 Crane Controller Remote panel(DEFENCE)**



Contact Us

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A background image showing a hand moving a chess piece on a chessboard, overlaid with a blue gradient. The text "THANK YOU!" is centered in white.

THANK YOU!

