

Schematic diagram of solar smart locker





Overview

How to use a smart locker?

In order to use this locker firstly the user have to login. User has to send an unlock request code (OTP) and after getting a feedback Email with OTP, he/she will be able to unlock the locker to access his/her valuables. We also introduce face detection approach to our proposed smart locker to ensure security and authenticity.

How does a locker system work?

The flowcharts of the whole locker system is shown in Figs. 3, 4 with the RFID card and admin controlled matrix keypad in case a person loses his locker's RFID tag separately. The program is written using Arduino software. This system is powered by the mainline via a power supply. When powered, it waits for an RFID tag from the user.

How IoT based smart locker ensure security of valuables?

In this paper, we have proposed an IOT based smart locker to ensure the security of valuables. It ensures security by provided OTP. In this system, firstly, a user has to send request to the server for an OTP and server will provide this OTP by sending a feedback Email to us er.

How accurate is the implemented system of smart locker?

The implemented system of Smart locker functions nearly accurate to the proposed system. Different condition has been tasted that are showed in Table 1. Face detection function has been tested that works accurately to generate or not generate OTP. Heat sensor function nearly accurate and response 90% accurately to function the proposed work.

How a bank locker security system works?

The by the code that will send to the mobile of the user with the help of GSM technology. Otherwise, the system will blow an alarm to ensure security. In



order to design this security system, they also use microcontroller, PIR sensor and vibration sensor. Another bank locker security system , which mainly based on RFID [12, 13].

Can a smart security locker system be used in public places?

Using a smart security locker system using radio fre-quency identification (RFID) technology in these public places has been proposed and prototyped by the authors as a possible solution to the problems addressed in the above stated scenarios.



Schematic diagram of solar smart locker



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Even if you don't do any harm, a smart solar panel wiring plan will optimize performance and maximize the return on your investment. Read on to find out more about ...

(PDF) Fingerprint based smart door lock system using Arduino ...

The implemented hardware schematic diagram is shown in Figure 2(c). Figure 1. 5.0 fingerprint smart electronic lock controller meets the expected requirements. View. ...



- IP65/IP55 OUTDOOR CABINET
- ALUMINUM
- OUTDOOR ENERGY STORAGE CABINET
- OUTDOOR MODULE CABINET

A SMART LOCKER USING SOLAR ENERGY

We have made a smart locker by using RFID sensor where user can use the locker by scanning the ID card. This smart locker is used to charge smart devices of the user like mobile phone. ...

One-Line Diagram Symbols (With Table) , Solar Plan ...

Today we're going to explore the fascinating world of one-line diagram symbols used in photovoltaic (PV) system design. One-line diagrams are crucial visual tools that represent how solar components interact and the energy



flow within ...



Password Based Door Lock System Using Arduino Circuit Diagram

The Arduino circuit diagram is a special type of electronic schematic that illustrates how various parts of the door lock system interact to allow secure access. This ...

Schematic diagram of the Smart Door Monitoring and Locking ...

The Block Diagram of the Smart Door Monitoring and Locking System is shown in figure 1 and the schematic diagram is in figure 2. This System consists of the main following units. View in ...



Smart-Lock Block Diagram

You represent that, with respect to your applications, you have all the necessary expertise to create and implement safeguards that (1) anticipate dangerous consequences of failures, (2) ...



Smart Door Monitoring and Locking System using SIM900 ...

Schematic diagram of the Smart Door Monitoring and Locking System. without unlocking the lock or break the lock. solar cell modules has an efficiency of 14,1% and is ...



Schematic diagram of building-integrated solar thermal system ...

Building-Integrated Photovoltaic (BIPV) is a smart energy production system that incorporates solar PV panels as part of the roof, windows, facades and shading devices.

(PDF) Smart Locker: IOT based Intelligent Locker with ...

In this paper, we proposed a smart locker, which is mainly based on IOT. We mainly introduce a smart. locker with password protection and face detection approach. In this system firstly a



[Automatic Car Parking System Circuit Diagram](#)

The circuit diagram for an automatic car parking system typically consists of several components including sensors, controllers, actuators, and an array of connections. ...



Guide to Installing Solar Panels: Wiring Diagrams

The diagram will show how the solar panels and other components are grounded to ensure safe operation. Proper grounding helps protect against electrical shock and reduces the risk of damage caused by lightning or other electrical surges. ...



Smart Phone controlled Biometric Door Lock using NodeMCU ...

NodeMCU - Code C: Now it's time to give life to the smart lock. The code for NodeMCU is developed in C and is admin/uploaded using Arduino IDE. Download the ...

(PDF) Smart Locker: IOT based Intelligent Locker with Password

the security and authenticity of the locker. Fig.3. shows the flow diagram of the proposed system. The smart locker system uses the firebase system so it can be controlled ...



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- Wide temp: -20°C to 55°C
- Easy to expand
- Floor mount&wall mount
- Intelligent BMS
- Cycle Life:≥6000
- Warranty :10 years



Schematic diagram of the Smart Door Monitoring and Locking ...

The Block Diagram of the Smart Door Monitoring and Locking System is shown in figure 1 and the schematic diagram is in figure 2. This System consists of the main following units. View in



IoT Based Smart and Secure Lock V2.0

In this project we've built IoT based smart and secure lock which have 4 layers of access. RFID + PIN + Fingerprint + OTP. Intermediate Full instructions provided 10 hours 3,840



Schematic diagram of smart dual-axis Tracker.

Download scientific diagram , Schematic diagram of smart dual-axis Tracker. from publication: Design and experimental execution of a microcontroller (u C)-based smart dual-axis automatic solar

Design and prototyping of a security locker system for

The proposed RFID technology based security locker provides a promising solution to the safety and security of the valuable personal belongings of people at public places such as in schools, ...



(PDF) Design prototype of a smart household touch ...

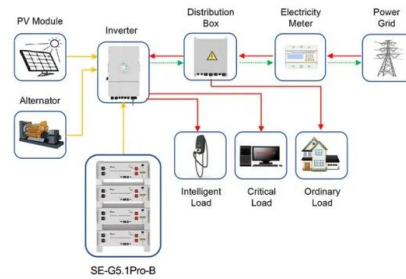
In this paper, we present the theft prevention using a technological solution namely "Smart Household Touch Sensitive Locker Security System Based on GSM Technology". A locker (touch sensitive box) covered by touch plates is ...





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Application scenarios of energy storage battery products



Block Diagram of solar based wireless mobile charger

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Without a well-crafted wiring diagram, even the most advanced solar setup can falter, leading to inefficiencies, safety hazards, and costly errors. Different Configurations for Solar Panel Wiring Diagrams. Solar energy systems come ...



Arduino

Learn how to make a door lock system using password with keypad and electromagnetic lock. When the door is unlocked by a correct password, It keeps the door unlocked for 20 seconds, and then automatically lock the door again. ...



SMA Sunny Boy Smart Energy 5.0 SBSE5.0-50 System Manual

Page 1 - Generate solar power, store and use it effectively The solution for the flexible and effective use of solar energy with added peace of mind in the event of power outage with ...

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