

Key card system for guest rooms

Reduce unnecessary consumption by switching off unoccupied rooms

- Key card energy saving devices can save energy in unoccupied rooms by shutting off power to electrical appliances and air conditioning.
- Mostly the systems are card operated, which only work with the door access card of the room.
- It has higher guest comfort by enabling them to switch off all lights and appliances with one switch before leaving the room. Through a delayed switch-off, guests can comfortably leave the room before the lights go off.

Application: for all electrical appliances, lights and HVAC within the room.

Ease: 1/5

Availability: 2/5

Factors to consider:

- One problem that has come to light in recent times is the need for charging hotel guests' electrical equipment such as laptop computers, digital cameras and mobile phones, all pose the question about what you should control in the room. You should consider leaving a socket live and clearly labelling it for charging purposes only! Please note that if you have a mini-bar/fridge in the room it should have a high efficiency rating and you should power this continuously.
- Guests should be notified of what power will remain on in the room, while they are out, to help prevent complaints when they return and find that their laptop or camera has not been charged.
- A system like this is not easily installed. The entire cabling of every room has to pass through a single point. This means all rooms have to be rewired. It is a good idea to do this every time a room or a part of the hotel is renovated and put in the system bit by bit.



"Key card electricity in rooms can save up to 25% of electricity consumption."

Cost: it is impossible to estimate the costs. It totally depends on the wiring in the rooms and how much has to be redone. The units themselves can be added to the door key card access system so only the actual card switches have to be bought.

Payback: just like with the costs it is not possible to say.

Requirements to meet criteria:

- The rooms have to run completely over the access system, which includes lights, HVAC, and appliances.
- One plug may be left active to let guests charge their appliances.
- Points will be given on percentage of rooms converted.