



MAKE IT POSSIBLE

Building automation & control systems

 **GreenOcean**
Control Systems
www.go-controlsystems.com

About Us

- GreenOcean provides designs and implements electromechanical works.
 - GreenOcean company was established in 2012
 - Operating: Jordan & Middle East.
- Address: Wasfi Al-tal Street, Building No. 53, Al-Zaitonah Building 5th Floor Amman, Jordan.

Our Merits

- Unique and creative solutions that meet the clients' expectations by realizing the clients' business objectives and, committing the ethical principles of public relations.
- Team work based on the implementation of progressive Control disciplines.
- Professional quality of services provided by a highly motivated team.
- Courage and readiness to communicate on behalf of client in crisis.
- Strong Technical background.
- Our team has a long experience on customized solutions & control systems.
- Having R&D department.
- 24/7 availability.

Our Services

1.Consulting

- GreenOcean offers consulting in the fields of electronics, control, medical and electrical engineering. Our areas of expertise include consulting in the development of comprehensive solutions for control applications, as well as consulting in research and development projects.
- What distinguishes GreenOcean is the company's team of dedicated and highly skilled engineers who oversee numerous projects in the fields of electronics and electrical engineering across Jordan and Middle East.

2. Electromechanical works Design

- GreenOcean is professional in utilizing the advanced program in our design like Revit, AutoCad, DuctSizer, Elite, HAP, Etap, Dialux reference to international and Jordanian code and standard.

Our services:

- Design all electromechanical works for all type of buildings
- Shop drawings
- Renewable energy study
- Lighting study and calculations
- Electrical load balancing
- Building automation system
- Security & CCTV works
- 3D modeling



3. Control and Monitoring Systems

- GreenOcean's projects in the Middle East have had a distinct effect on the market by providing optimal control systems for buildings, factories, and companies. The types of control systems provided include:

- BMS / KNX
- SCADA
- Robotics
- Automation
- Security System
- IP Camera / CCTV
- Access Control System
- Parking Management System

- GreenOcean has used a variety of systems, including:



4. Customized Solutions

GreenOcean Electronics specializes in providing customized solutions, and in the supplying of custom designs upon need.

GreenOcean Electronics' keen knowledge in control and security systems has helped to develop solutions that fulfill the needs of today's clients across different fields, such as Medical Devices, Control, Monitoring, Security and Electronics Systems including software and hardware development. These solutions allow you to increase productivity, reduce operating costs and increase customer satisfaction and safeguard your business.



Our Solutions & Products

Our Solutions & Products

1. Building Management system

Building Management System is a high-performance automation solution for monitoring and controlling the different subsystems across your business. The intelligent building management platform combines the systems, equipment and field devices that control your heating, ventilation and air conditioning (HVAC), in addition to energy consumption, lighting, hydraulics, water, electrical equipment and much more.

Business Benefits

Business benefits Building Manager uses standard open system protocols to integrate information from the building's subsystems to provide:

1. Seamless monitoring and control.
2. Faster response time.
3. Accurate data Increased productivity.
4. Reduced risk of down-time and exposure since it is scalable over time and distance. The system is a perfect solution for a wide range of businesses.

- Intelligent solutions Building Manager gives you access to a range of powerful attributes, all of which support business profitability:
 1. Single window monitoring and control of the entire site or multiple sites.
 2. Web-enabled graphic user interface and global scheduling
 3. Energy demand management
 4. Flexible alarm management
 5. Powerful analytical tools, including benchmarking
 6. Metrics on alarm activity and operator actions
 7. Improved management-level reporting
 8. Regulatory/legislative compliance
 9. Maintenance management

- The power of building integration Building Manager provides the ideal solution for open data integration between traditional building systems and essential enterprise systems. Open architecture supports a wide range of systems and products including:

1. LonWorks®
2. BACnet®
3. OPC®
4. Modbus®

BMS can be integrated with generator, solar cell system, firefighting system, compressor, boiler, chillers, CCTV, security System.



2. SCADA Systems

It is an innovative and an interactive solution which is used to facilitate the monitoring and make the control more effective and efficient. It manages the communication between the RTU, HMI and controller. It includes alarm and fault management, backup solution, graphical and visual representation of systems to make the operating and supervising more easy and reliable. SCADA system can be integrated with numerous systems and used in several applications such as compressor/pump station.

SCADA is an easy and intuitive solution with impressive built-in capabilities, including:

- Extensive RTU/meter/controller communications via native protocols
- SCADA server redundancy without expensive third-party fault tolerant computing platforms
- A fully supported virtual environment for cost reduction

- Online database and display changes
- Backup Control Center solution
- Distributed System Architecture (DSA) technology allowing multiple SCADA servers to function as one
- Integrated historian for both data and events
- Integrated alarm and event management
- Complete integration with compressor/pump stations, accounting, nominations, simulation and leak detection applications
- Common SCADA system, DCS and safety controller real-time database, alarms, history and HMI.

What Problems Does It Solve?

SCADA improves enterprise safety and reliability, provides intuitive control, enhances operator effectiveness, and ensures optimum flexibility with DSA. It offers improved operator effectiveness through:

- Equipment-based configuration with minimal effort
- Automatically generated displays
- State-of-the-art user interaction such as pan and zoom displays
- Dashboard style presentation and task-based filters that focus the operator's or pipeline controller's attention on what's important.



3, Long-range Detection

Robust long-range reader is used, it is based on RFID technology which enables automatic vehicle recognition at speed of up to 125 mph and distances of up to 10 m.

It is designed to execute well in both high security applications and demanding vehicular access control applications, under harsh environmental conditions.

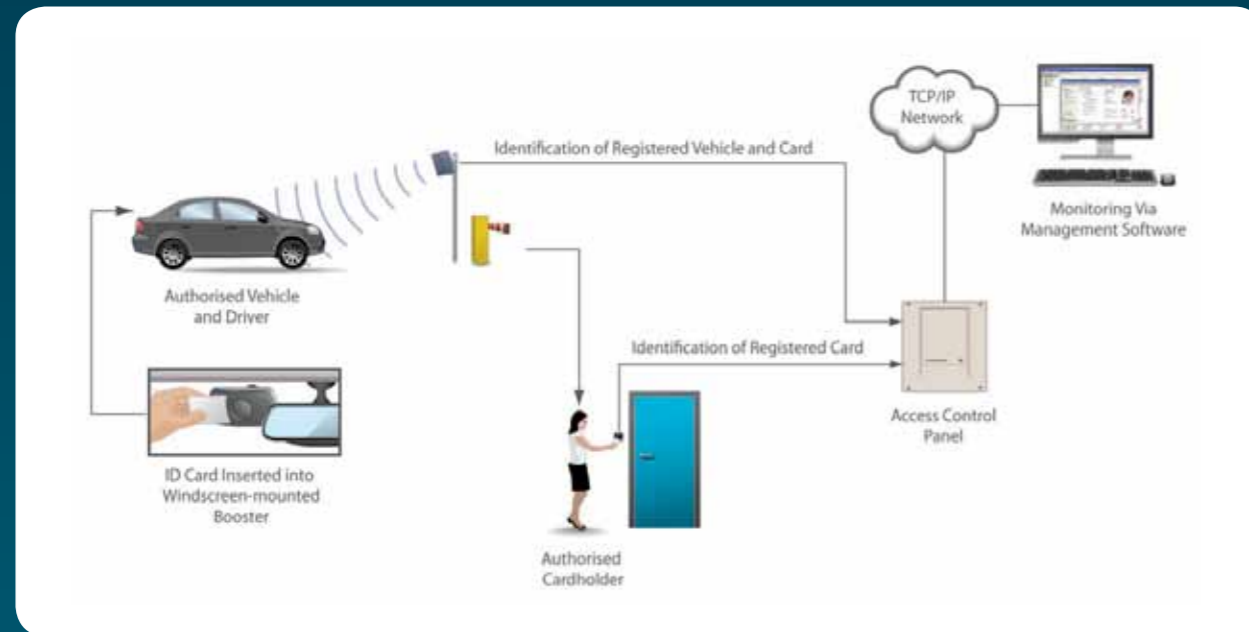
Features

- Robust industrial design.
- Read range of up to 10 metres.
- Object speed up to 125 mph.
- Well-defined adjustable read range.
- Variety of integrated communication interfaces.



4, People and Vehicle Access

The ability of controlling the access for people whether they are on foot or they are driving a vehicle proffers great benefits in several applications. Achieving this using the same electronic ID card for both applications offers simpler management and reduces cost.



The electronic ID card allows authorized people to access to the secured areas within buildings or installation sites. The label-type of ID cards can be stuck to the vehicles needed to be authorized. Moreover, the authorized vehicle can be registered in the access control system to prevent any vehicles from entering or leaving the site.

Applications

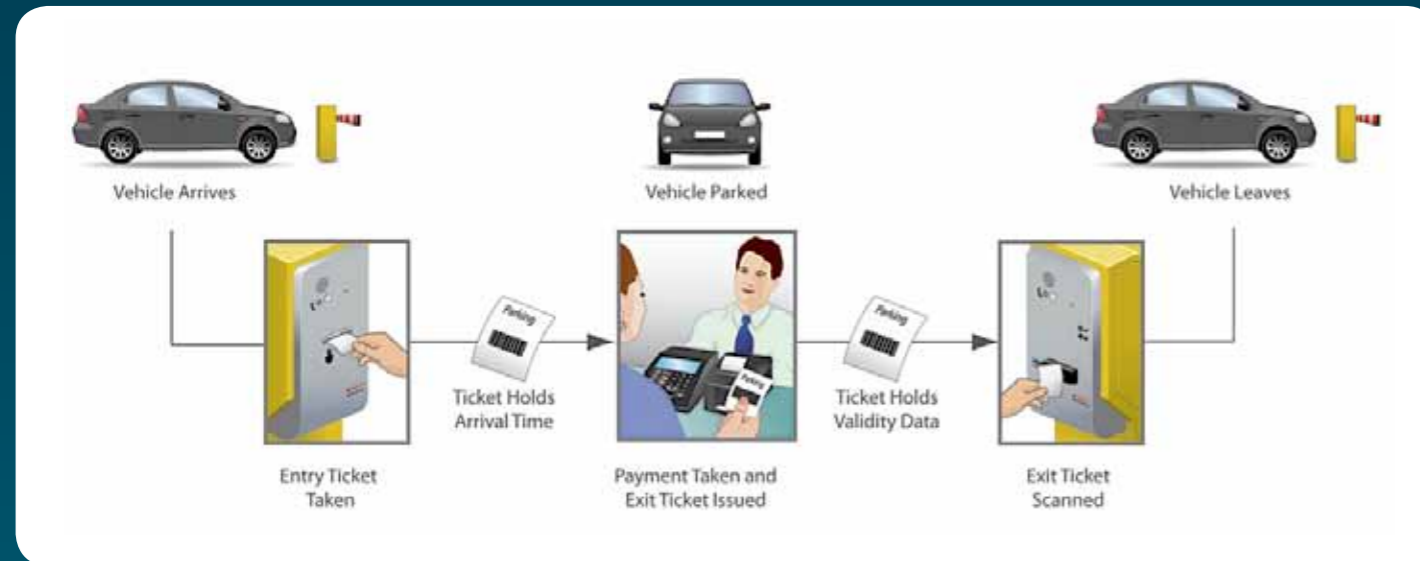
- High security installations.
- Personnel tracking.
- Taxi sending management.
- Fleet management (buses, trucks, service vehicles).
- Warehouse vehicles.
- Distribution depots.

Benefits

- Can be used to expand an existing standard electronic ID-based access control system to maximise perimeter security without the need to install a separate vehicle access control system or replace the existing installation.
- Increased security by checking both vehicle and driver identities.
- The capability to read a standard electronic ID card within a vehicle while it is moving through a control point at speed can reduce delays and avoid crowding.
- Combined driver and vehicle identification can reduce costs and simplify fleet management, while minimising the risk of loss of goods and rolling stock through vehicle theft.

5. Parking and Guidance System

Collecting parking revenue and managing the use of a car park doesn't have to be complicated and expensive. GreenOcean's FeeMaster Smart product range allows car park administrators to manage the stay of each vehicle and to charge the correct fee for the stay without expensive pay-on-foot equipment.



Single Space Detection and Guidance System

The system supplied by GreenOcean is one of the most innovative and economical monitoring and management systems for car parks. Since every single space is monitored, a clear picture of free parking spaces is available at any time, independent of the car park's size. The system ensures that every vehicle is accurately and securely guided to its parking space. Moreover, the system guides the drivers to the empty spaces within the parking which save the time of the drivers and reduce the traffic jam inside the parking area.

Applications

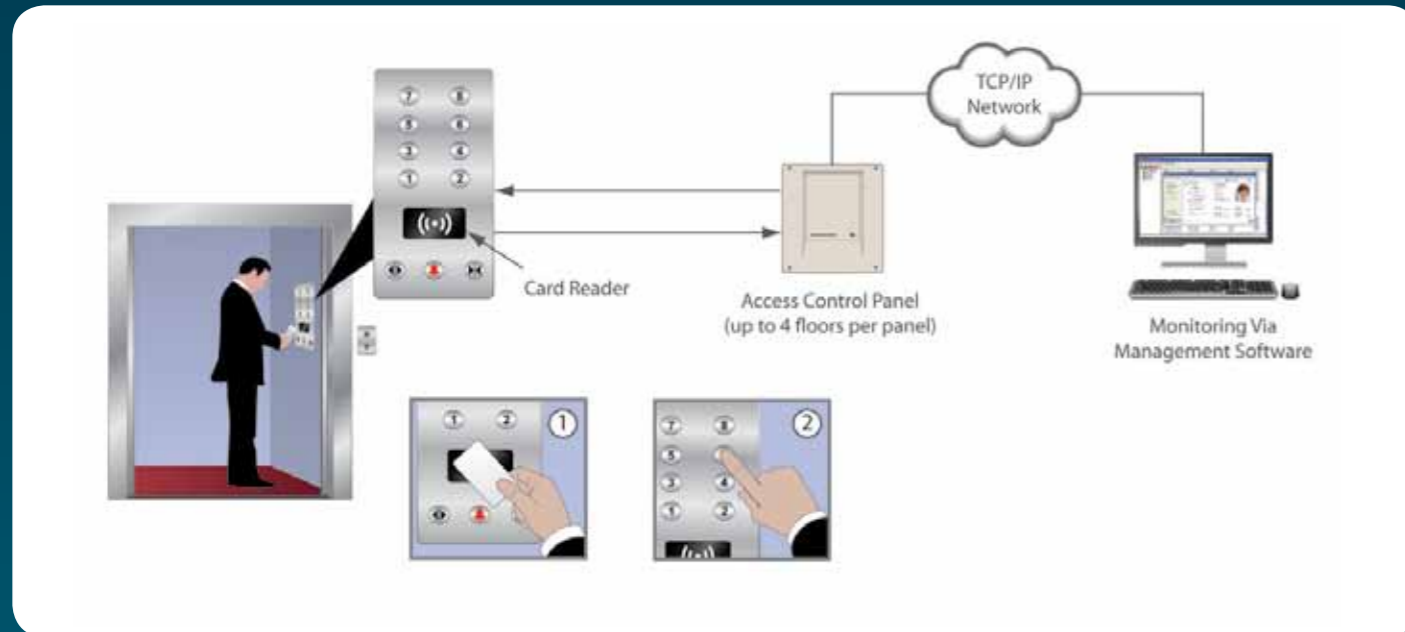
- Hotels.
- Retail Parks.
- Leisure Facilities.
- Small Commercial Car Parks.
- Goods Collection Points.

Benefits

- Cost-effective and easy-to-install system enables the generation of revenue from a parking facility with a speedy returns on investment.
- Cable-free technology lowers the cost and disruption of civil works during installation.
- Built-in transaction logging helps to avoid loss of revenue through fraud.
- Can be used for vehicle access control to reduce the inconvenience and loss of revenue caused by unauthorised parking.

6. Lift Control

GreenOcean access control can be easily integrated into a lift control system to enable restricted access to certain floors within a building.



An access control application that is very familiar in multi-story buildings such as multi-tenanted office blocks and hotels that need to prevent unauthorised personnel from accessing certain floors via the lift(s).

As an example, in a building shared by several companies, the company that occupies the second floor may wish to prevent employees and visitor of other companies within the building from accessing their floor. For hotels to supply a safe and secure environment for their guests, it may be necessary to restrict access to the bedroom floors to paying guests and staff only, reducing the risk of theft and attack.

Applications

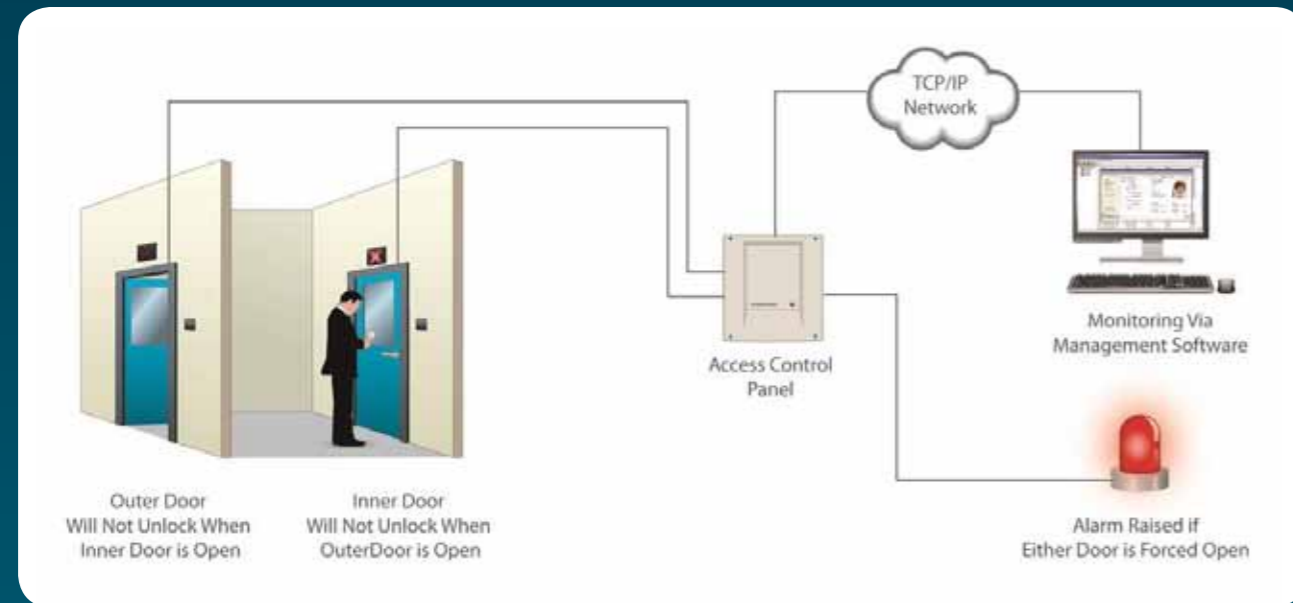
- Shared office buildings.
- Companies with restricted access sections.
- Hotels.
- Department stores with office floors.

Benefits

- Allows access control for entire floors.
- Provides security for the occupants of multi-tenancy buildings.
- Can be used to extend an existing access control system.
- Increases security without compromising the free use of lifts for access to unsecured floors.

7. Door Interlock

There are many applications that need the prevention of the free flow in or out of the secured area by unauthorised personnel or other beings such as livestock when an access door is unlocked. An interlocking door system provides a perfect solution to this problem.



An interlocking door system uses a 'vestibule' between the secured area and the unsecured area, with a lockable door between each area and the vestibule.

The locking system is designed in such a way that, while one door is open, the opposite door cannot be unlocked. This arrangement is sometimes referred to as an 'air lock'. An authorised person must pass through one door and close it behind them before they can unlock the second door. If an unauthorised person was able to force their way into the vestibule while the door is unlocked, they would be unable to progress any further until an authorised person unlocks the second door.

Applications

- Storage of high value items.
- Storage of delicate antiques.
- Research and Development Centres.
- Laboratories and equipment rooms requiring positive air pressure.
- Climate controlled areas.
- Zoos.
- Animal husbandry.

Benefits

- Increased security without the need for expensive equipment.
- Reduces the risk of loss or damage to property through oversight.
- Reduces the danger of death or injury through oversight.

8. Leak Detection System

Pipeline Alert leak detection equipment is designed to maximize protection by having continuous monitoring 24/7. Our pipeline leak detection equipment is easy to install. Detect small leaks such as condensate water overflow, chiller water leaks, gas leakage and oil.

to provide maximum support to pipeline operating companies, a leak detection system should:

- Detect leaks quickly.
- Locate leaks accurately.
- Issue minimal false alarms.
- Be easy to retro-fit.
- Work effectively under all operating conditions and Use sensors with high reliability and low maintenance.

Leakage Alarm

1. audible alarm.
2. SMS/Call Alarm.
3. eMail Alarm.

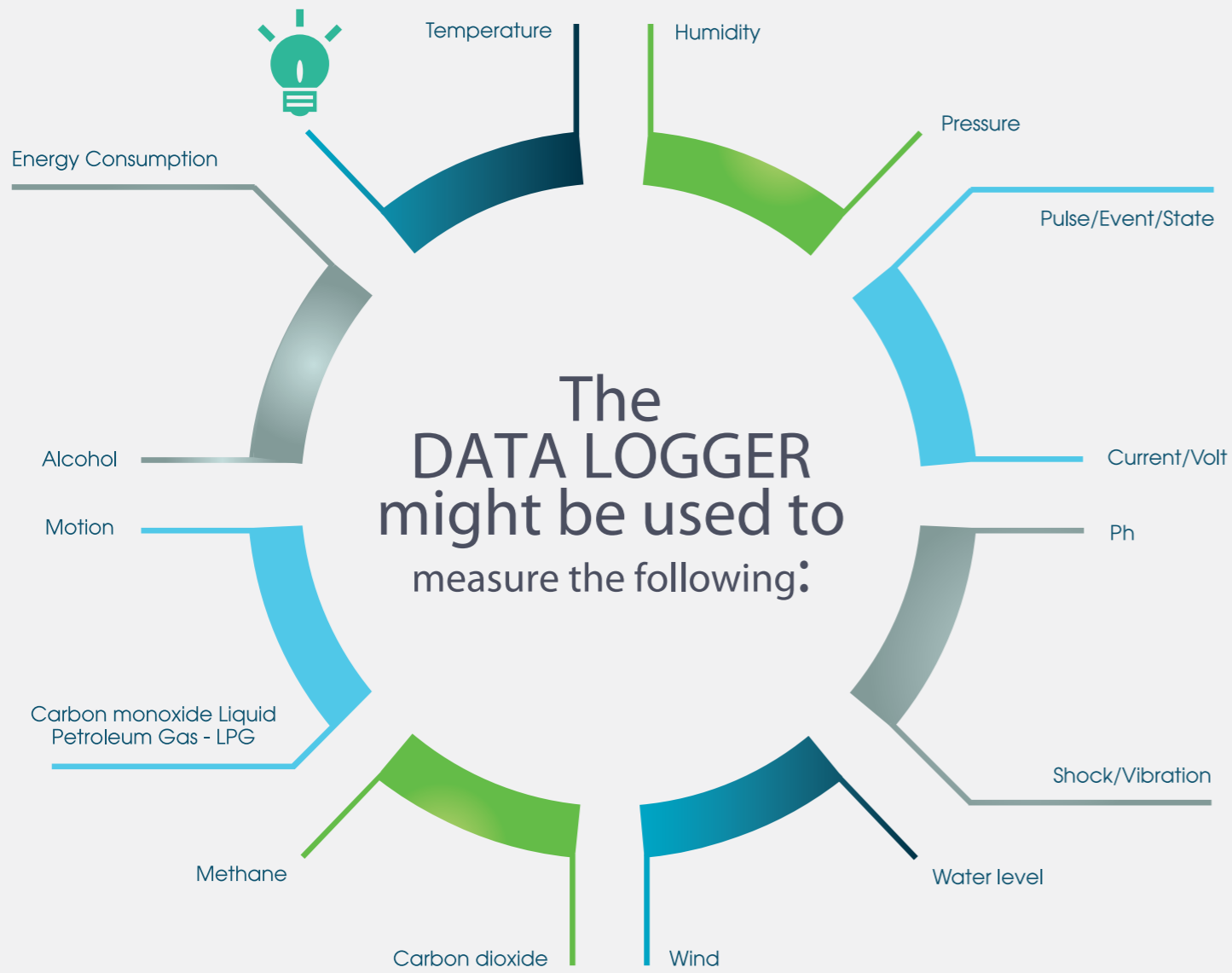
9. Data Logging Systems

GreenOcean offers data logging systems for measuring and recording Temp. Hum. Energy consumption depending applications and customer req.. Each system provides a complete data monitoring solution to make collecting and analyzing data easy. These temperature monitoring systems enable highly precise data logging in a wide variety of environments. Regardless of the conditions that prevail at your site.

Where are data loggers used?

Data loggers are used in a broad range of indoor, outdoor and underwater environments – essentially anywhere data is needed and the convenience of battery power is preferred.





Smart Building

Smart Home & Building Solutions

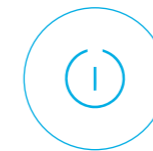
Hotel

Lighting, heating, music, TV
all integrated into one controller!



Check in/ check out

Thanks to integration into a hotel system, it is possible to create a light scene in the room when a guest registers.



All Off/ energy saver

When the guest then leaves, the system automatically disconnects all electrical appliances and saves on both heating and cooling costs.



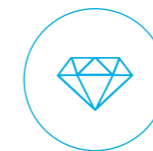
Do Not Disturb

Guests can very easily signal if they want the room cleaned, or do not want to be disturbed.



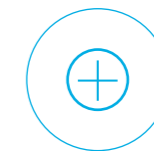
Comfort

The combination of automatic illumination based on motion and central control of the room.



Design

Through their timeless design, the control unit with display or glass touch unit will complement any interior.



Versatility

The system is suitable for installing in large and small lodging facilities alike.

Smart Home & Building Solutions

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Houses Villa

Let's build a SMART HOUSE

Then that is a really smart electro-installation. To achieve real cost savings and an effective building control all technologies are required to interconnect with each other and moreover to communicate with another. All these can be achieved by Our Solutions!



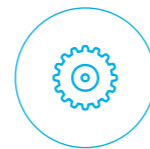
Central and remote monitoring

Whether you are at home or away, your home remains under the constant control of your smartphone.



Savings

By proper regulation of the temperature and linkage of home technologies, you can achieve substantial savings.



Automation

All functions take place in the background without bothering you. The system monitors, regulates, economizes and controls.



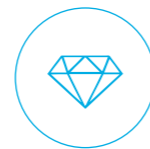
Security

The built-in alarm not only watches for burglars, but also for gas leaks or fires. Besides this, it monitors basement heating, frozen rain spouts, or children via video cameras.



Comfort

Control of light scenes with a single touch, the option of expanding and modifying what you want to control.



Design

Glass touch controllers in white or black stand out in any interior.



Smart Home & Building Solutions

Commercial

Control system for shopping malls, hospitals, airports, offices and even for castles!
It offers an excellent overview for owner!



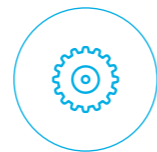
Connection of BMS

Our solution can easily be connected to a Building Management System.



Regulation

Appropriate regulation saves costs in building operation in terms of heating, cooling, water heating, etc.



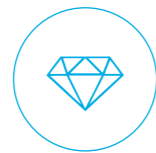
Automation

Based on time, light intensity, motion and other information, it is possible to automatically control lighting, shading, heating or cooling.



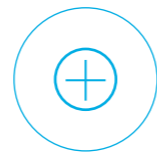
Access system

Based on access rights, the system controls employee and visitor access to various parts of a building.



Design

Design of control units is an important element of modern buildings, and iNELS offers an entire series of colors and materials.



Versatility

The system is suitable for installing in large and small commercial buildings alike.

Note

Contact us



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