SMART KEY
&
SMART LOCK
SYSTEM

Features

- Key-centric access control system

- Battery-less lock

- Direct replacement of existing lock, ideal for retrofitting. No wiring required

- Configurable intelligent keys through easy to use software

- Able to grant access rights according to authorised personnel and time

- Remote access control through handphone NFC technology

- Over 170 lock cylinder designs available

- Audit trail for accountability and integrity

Application and Functional Description

Transport and Logistics
Containers/Warehouses/
Depots/Checkpoints

Telecom and Data Centers
Data Center Racks

Airport
Air Hangar/Restricted Access
Area/Perimeter Gates

Corporate Offces
Meeting Rooms/
Cabinets/Server Rooms

Water Plants & Public Utility Facilities
Risers/Substations/
Equipment Storage/
Hydro-electricity Facilities/
Water Storage Tanks

Petrochemical Plants and Construction Sites
Storage of Controlled
or Hazardous Items/
Control Valve Locks/
Mobile Vehicles

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Overall System Diagram

Key Management Software

Server Database

READER/ENCODER — TCP/IP — HANDHELD DEVICE — NFC

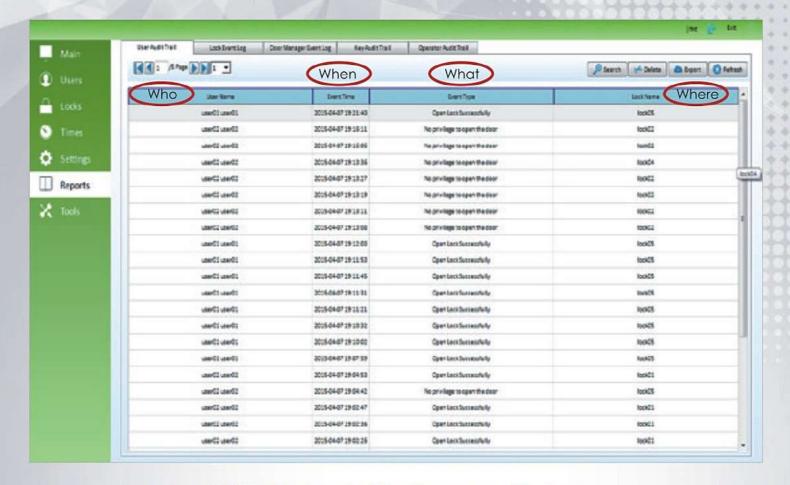Access Activation Through Software

Access Activation Through NFC

- The mechanical lock cylinders can be replaced easily with the Smart Lock Cylinders. A mode of access control for the locks is set up easily without having to go through the added hassle of cabling and messy wiring. Cost savings on cabling.

- With the Key Management Software (KMS-PRO)and the uniqueness of the lock cylinder design, the system gives a new dimension to the security industry.

- With a range of locks of up to over 170 different types, there is always a type of lock in our Smart Lock range that can suit any specific need, regardless of the industry or operating environment, as long as the lock profile is of euro profile. Non-euro profile locks may require customization.

- The Desktop Access Reader/Encoder is connected to a computer to configure the key access rights, reporting of lost keys, lock data and retrieving of key access data. It is connected to the PC via a USB port.

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Key Management Software

KMS-PRO Integrated Key Management System

The professional Key Management Software (KMS-PRO) can support up to 64,000 locks (including lock groups) and 64,000 keys (including key groups) and 200 time zones. These keys can be programmed/deleted and data can be uploaded for audit trail purposes to ensure accountability and integrity.

The Key Management Software is dedicated to manage access rights of every user. The key user is only allowed to work within the stipulated time as assigned. The keys have authorised access rights.
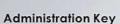
Each transaction will be logged in the key as well as the lock and can be retrieved via the encoder/reader for audit purposes.

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System Components

Administration Key

User & Supervisor Key

Battery life: More than 25,000 times operation.

Administration Key: The Administration Key is used to change the lock code, to modify the lock code, to set the lock number, to upload blacklisted users or retrieve log events from the lock.

User & Supervisor Key: This key is used to set up 2 levels of authorization. The first level is for users. The next level is for supervisor for overall control.

Maintenance: Only maintenance requires a change of the standard half size AA lithium battery in the key. When battery life is low, a signal will be alerted in the key. The battery life is about 2 years and supports more than 25,000 times of key open and close operations

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Riser Door Lock Cylinders

A   B   C

3 typical Smart Lock Cylinders for riser doors

A. Single-way lock cylinder
- requires a key to unlock door to get inside the riser. The door cannot be locked from the inside.

B. Single-way lock cylinder with button knob exit
- requires a key to unlock door to get inside the riser. The door can be locked/unlocked from inside by turning the knob/button.

C. Two-way lock cylinder.
- requires a key to unlock door to get inside the riser. The door can be locked/unlocked from inside by using a key only.

Easy installation by replacement of cylinder

- Riser door cylinders are easy to install and programmed like any other Smart Lock Cylinders.

- The KMS Pro software is used for managing riser door cylinders.

- No wiring or cabling is required in installing the riser door cylinders.

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